

		SAFETY DATA	SHEET		
in accordance with 1907/2006/EC (REACH, as amended by 453/2010/EC) and 29 CFR 1910.1200					
Revision date: 25 Marc	h 2015	Initial date of issue:	5 July 2007	SDS No. 289-12a	
SECTION 1: IDENTIFICA	TION OF THE SU	JBSTANCE/MIXTURE AN	D OF THE COMPA	NY/UNDERTAKING	
1.1. Product identifier					
652 Pneumatic Lubricant &	Conditioner (Bul	lk)			
1.2. Relevant identified u	ses of the subst	ance or mixture and uses	s advised against		
Petroleum base lubricant.					
1.3. Details of the supplie	r of the safety d	lata sheet			
Company: A.W. CHESTERTON COM 860 Salem Street Groveland, MA 01834-150 Tel.: +1 978-469-6446 F (Mon Fri. 8:30 - 5:00 PM SDS requests: www.cheste E-mail (SDS questions): Pr E-mail: customer.service@	7, USA ax: +1 978-469-(EST) erton.com oductMSDSs@c		lier:		
1.4. Emergency telephon	e number				
24 hours per day, 7 days p Call Infotrac: 1-800-535-50 Outside N. America: +1 35	er week)53	ect)			
SECTION 2: HAZARDS II	DENTIFICATION				
2.1. Classification of the	substance or mi	ixture			
2.1.1. Classification acco	rding to Regulat	tion (EC) No 1272/2008 [C	LP] / 29 CFR 1910.	1200 / GHS	
Asp. Tox. 1, H304 Aquatic Chronic 3, H412					
2.1.2. Classification acco	rding to Directiv	ves 1999/45/EC and 1975/	324/EEC		
R52/53					
2.1.3. Canadian WHMIS c	lassification				
D2B: Toxic materials causi	ng other effects				
2.1.4. Australian classific	ation				
Hazardous according to criteria of Safe Work Australia.					
2.1.5. Additional informat	2.1.5. Additional information				
For full text of R-phrases: see SECTIONS 2.2 and 16.					
2.2. Label elements					
Labelling according to R	egulation (EC) N	lo 1272/2008 [CLP] / 29 C	FR 1910.1200 / GHS	5	
Hazard pictograms:					
Signal word:	Danger				
Hazard statements:	H304 H412	May be fatal if swallow Harmful to aquatic life v			

Date: 25 March 2015

Precautionary s	statements:	P273 P301/310 P331 P501A	IF Do	NOT induce von	mmediately c niting.	t. all a POISON CENTER or do an approved waste disposal	
Supplemental ir 2.3. Other hazar None		None					
	MDOSITION						
3.2. Mixtures				NINGREDIEN 13			
Hazardous Ingr	edients1	9	% Wt.	CAS No./ EC No.	REACH Reg. No.	Classification (CLP/GHS)	Classification (67/548/EEC)
Distillates (petrol heavy naphtheni		eated 7	0-80	64742-52-5 265-155-0	NA	Asp. Tox. 1, H304	Not classified
N-Methyl-2-pyrro	blidone	1	-2	872-50-4 212-828-1	NA	Repr. 1B, H360D Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	Repr. Cat. 2; R61 Xi; R36/37/38
2,6-di-tert-butyl-p		0	0.1-0.9	128-37-0 204-881-4	NA	[Eye Irrit. 2B, H320]** STOT SE 3, H335 Aquatic Acute 1, H410 Aquatic Chronic 1, H400 (M-factor = 1, self- classification)	Xi; R37 N; R50/53
Other ingredients	S:						
C13-rich Indications of da For full text of H-	-14-isoalkyl es nger acc. to 6 statements ar	7/548/EEC: nd R-phrase	es: see S				Not classified
For full text of H- *Contains less th	-14-isoalkyl es nger acc. to 6 statements ar nan 3 % DMSC ing to: * 29 CF * 1272/2 * Contro	7/548/EEC: nd R-phrase D extract as R 1910.1200 2008/EC, 67/ pilled Product	Xi: Iri es: see S measur 0, 1915, 19 548/EEC, s Regulat	283-740-9 ritant; N: Dangero ECTION 16. ed by IP 346. **N 916, 1917, Mass. R , 99/45/EC, REACH ions	ous for the er Ion-CLP clas ight-to-Know L	nvironment	
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5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Flammability	Classification:	not determined

HAZCHEM Emergency Action Code: 3 Z

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Cordon off spill area. Surfaces can be slippery. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions

Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up

Contain spill to a small area. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Utilize exposure controls and personal protection as specified in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Store in a cool, dry area.

7.3. Specific end use(s)

Petroleum base lubricant. Refer to the product instructions and product data sheet for more detailed application information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values

Ingredients	OSH/ ppm	A PEL ¹ mg/m ³	ACGI ppm	H TLV ² mg/m ³	UK \ ppm	VEL ³ mg/m ³	AUSTR/ ppm	ALIA ES⁴ mg/m³
Oil mist, mineral	_	5	-	5	-	-	-	5
N-Methyl-2-pyrrolidone**	-	-	-	-	25 STEL: 75	103 309	25 STEL: 75	103 309
2,6-di-tert-butyl-p-cresol	-	-	-	2***	-	10	-	10
Oxo-Alcohol Acetic Acid Ester*	-	_	-	_	_	_	-	_

*Chesterton recommended limit, 8 hr TWA: 50 ppm, 10 mg/m³.

**American Industrial Hygiene Association (AIHA) recommended limit, 8 hr TWA: 10 ppm, skin.

***Inhalable fraction and vapor

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.

Protective gloves: Chemical resistant gloves (e.g. Viton*, neoprene, nitrile). *DuPont's registered trademark.

Eye and face protection: Safety goggles or glasses.

Other: In	npervious gloves and clothing as	necessary for repetitive, prolonge	d contact with liquid.
8.2.3. Environmental exposu	re controls		
Refer to sections 6 and 12.			
SECTION 9: PHYSICAL AND	CHEMICAL PROPERTIES		
9.1. Information on basic phy	vsical and chemical properties		
Physical state Colour Initial boiling point Melting point % Volatile (by volume) Flash point Method Viscosity Autoignition temperature Decomposition temperature Upper/lower flammability or explosive limits Flammability (solid, gas)	low viscosity liquid amber 220°C (428°F) not determined 9% 132°C (270°F) PM Closed Cup 28 cps @ 25°C not determined not determined not determined not determined	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) Solubility in water Oxidising properties	petroleum odor not determined not determined < 1% not applicable 0.9 kg/l 7.5 lbs/gal. < 1 > 1 < 1 slightly soluble not determined
Explosive properties	not determined	exitising properties	not acterninea
9.2. Other information			
Kinematic viscosity at 40°C: 17	7.7 cSt.		
SECTION 10: STABILITY AN	D REACTIVITY		
10.1. Reactivity			
Refer to sections 10.3 and 10.5	5.		
10.2. Chemical stability			
Stable under normal conditions			
10.3. Possibility of hazardous			
No dangerous reactions known	under conditions of normal use.		
10.4. Conditions to avoid			
Open flames and red hot surface	ces.		
10.5. Incompatible materials			
Caustics, strong oxidizers like I	iquid Chlorine and concentrated	Oxygen.	
10.6. Hazardous decomposit	ion products		
Carbon Monoxide, Carbon Dio	xide and other toxic fumes.		
SECTION 11: TOXICOLOGIC			
11.1. Information on toxicolo	gical effects		
Primary route of exposure under normal use:	Inhalation, skin and eye contact.		
Acute toxicity -			
Oral:			
	Substance	Test	Result
	Distillates (petroleum), hydrotre heavy naphthenic		> 5000 mg/kg, estimated
	Acetic acid, C11-14-isoalkyl est C13-rich	ers, LD50, rat	> 5000 mg/kg
	N-Methyl-2-pyrrolidone	LD50, rat	3598 mg/kg
	2,6-di-tert-butyl-p-cresol	LD50, rat	6000 mg/kg

Dermal:				
	Substance	Test	Result	
	Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 2000 mg/kg, estimated	
	Acetic acid, C11-14-isoalkyl esters, C13-rich	LD50, rabbit	> 5000 mg/kg	
	N-Methyl-2-pyrrolidone	LD50, rabbit	8000 mg/kg	
	2,6-di-tert-butyl-p-cresol	LD50, rat	2000 mg/kg	
Inhalation:	High vapor concentration can cause eye and re	espiratory irritation, headache and dizz	ziness.	
	Substance	Test	Result	
	Distillates (petroleum), hydrotreated heavy naphthenic	LC50, rat, 4 hours	> 5 mg/l, estimated	
	N-Methyl-2-pyrrolidone	LC50, rat, 4 hours	> 5.1 mg/l	
Skin corrosion/irritation:	Prolonged or repeated skin contact may d	efat the skin and cause skin irritat	ion.	
	Substance	Test	Result	
	Distillates (petroleum), hydrotreated heavy naphthenic	Skin irritation, rabbit	< 0.5 / 8.0, estimated	
	Acetic acid, C11-14-isoalkyl esters, C13-rich	Skin irritation, rabbit	Slightly irritating	
	N-Methyl-2-pyrrolidone	Skin irritation, rabbit, human experience	Irritating	
Serious eye damage/ irritation:	Direct eye contact may cause eye irritation	٦.		
	Substance	Test	Result	
	Distillates (petroleum), hydrotreated	Eye irritation, rabbit	< 15 / 110,	
	heavy naphthenic		estimated	
	Acetic acid, C11-14-isoalkyl esters, C13-rich	Eye irritation, rabbit	Slightly irritating	
	N-Methyl-2-pyrrolidone	Eye irritation, rabbit	Moderate irritation	
Respiratory or skin sensitisation:	Distillates (petroleum), hydrotreated heavy naphthenic: Skin sensitization is indicated as non- sensitizing based on data from similar products. N-Methyl-2-pyrrolidone: based on available data, the classification criteria are not met. Acetic acid, C11-14-isoalkyl esters, C13-rich: did not produce any evidence of skin irritation or skin sensitization response in a repeated insult patch test in human volunteers.			
Germ cell mutagenicity:	Distillates (petroleum), hydrotreated heavy and has a negative potential for tumor dev Assay, with a Mutagenic Index of less that based on available data, the classification C13-rich: expected to be non-mutagenic b	relopment based on results from t n 1.0. N-Methyl-2-pyrrolidone 2,6- criteria are not met. Acetic acid, (he Modified Ames di-tert-butyl-p-cresol: C11-14-isoalkyl esters,	
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:	Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met. N-Methyl-2-Pyrrolidone has produced reproductive/teratogenic effects in animal studies. WARNING: This product contains chemical(s) known to the State of California to cause reproductive toxicity. 2,6-di-tert-butyl-p-cresol: not expected to be a reproductive toxicant. Acetic acid, C11-14-isoalkyl esters, C13-rich, maternal NOAEL, rat: 500 mg/kg / day; developmental NOAEL, rat: 2500 mg/kg / day.			
STOT-single exposure:	Distillates (petroleum), hydrotreated heavy naphthenic: based on available data, the classification criteria are not met. Acetic acid, C11-14-isoalkyl esters, C13-rich: High vapor concentration can cause eye and respiratory irritation, headache and dizziness. N-Methyl-2-pyrrolidone, 2,6-di-tert-butyl-p-cresol: May cause respiratory irritation.			
STOT-repeated exposure:	Distillates (petroleum), hydrotreated heavy naphthenic, N-Methyl-2-pyrrolidone: based on available data, the classification criteria are not met. Acetic acid, C11-14-isoalkyl esters, C13-rich: NOAEL, 90-day oral subchronic study, rat: 500 mg/kg / day.			

Aspiration hazard:	May be fatal if swallowed and enters airways.
Other information:	None

SECTION 12: ECOLOGICAL 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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment [2,6-di-tert-butyl-p-cresol: 48 h EC50 (for daphnia) = 0.48 mg/l]. Distillates (petroleum), hydrotreated heavy naphthenic, N-Methyl-2-pyrrolidone: available data indicate this product is not acutely toxic.

12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy naphthenic: 31% biodegradation (OECD 301F, 28 days). Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to biodegrade slowly in soil and water. N-Methyl-2-pyrrolidone; biodegradation: 73% (OECD 301C, 28 days), readily biodegradable. 2,6-di-tert-butyl-p-cresol: not readily biodegradable.

12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated heavy naphthenic, N-Methyl-2-pyrrolidone: not expected to bioaccumulate. Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to bioaccumulate. 2,6-di-tert-butyl-p-cresol: may bioaccumulate in fish and aquatic organisms (BCF = 230 – 2500, fish, 56 days; log Kow = 5.1).

12.4. Mobility in soil

Low viscosity liquid. Slightly soluble in water. negligible. 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. Acetic acid, C11-14-isoalkyl esters, C13-rich: expected to have high affinity for adsorption to soil and sediments. N-Methyl-2-pyrrolidone: 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. Free product should be incinerated or may be amenable to fuels blending. 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.

European List of Wastes code: 13 02 05

SECTION 14: TRANSPORT INFORMATION

14.1. UN number	
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.2. UN proper shipping name	
ADR/RID/ADN/IMDG/ICAO:	NON-HAZARDOUS, NON REGULATED
TDG:	NON-HAZARDOUS, NON REGULATED
US DOT:	NON-HAZARDOUS, NON REGULATED
14.3. Transport hazard class(es)	
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.4. Packing group	
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.5. Environmental hazards	
NOT APPLICABLE	
14.6. Special precautions for user	
NOT APPLICABLE	
14.7. Transport in bulk according to	Annex II of MARPOL73/78 and the IBC Code
NOT APPLICABLE	
1	

Date. 23 March 2013		303 NO. 209-12a			
14.8. Other informatio NOT APPLICABLE					
SECTION 15: REGULATORY INFORMATION					
		ation specific for the substance or mixture			
15.1.1. EU regulations	• •	•			
•	Title VII: Not applicable				
Restrictions under Tit					
Other EU regulations:					
_					
15.1.2. National regula					
US EPA SARA TITLE I		Hazardous Materials Identification System (HMIS)			
	Chemicals:	4 = Severe Hazard HEALTH 1 3 = Serious Hazard			
Immediate N-M	lethyl-2-pyrrolidone 1-2%	2 = Moderate Hazard 1 = Slight Hazard DUXSICAL HAZARD 1			
		0 = Minimal Hazard			
		* = See Section 8 Personal Protection *			
Other national regulat	ions: None	<u> </u>			
-					
15.2. Chemical safety					
No Chemical Safety As	sessment has been carried out for this	s substance/mixture by the supplier.			
SECTION 16: OTHER Abbreviations ADM		e International Carriage of Dangerous Goods by Inland Waterways			
ATE BCF CLF ES: GHS ICA IMD LC5 LD5 LOE N/A NA: NO/ NOE OEC PBT (Q)S STE STC TDC US VPV WEI WH	Acute Toxicity Estimate Bioconcentration Factor Classification Labelling Packaging F Exposure Standard Globally Harmonized System D: International Civil Aviation Organiz Gibally Harmonized System O: International Maritime Dangerous O: Lethal Concentration to 50 % of a t O: Lethal Dose to 50% of a test popule L: Lowest Observed Effect Level Not Available AEL: No Observed Adverse Effect Level D: Organization for Economic Co-op Persistent, Bioaccumulative and To: SAR: Quantitative Structure-Activity R ACH: Registration, Evaluation, Authori Regulations concerning the Internati Safety Data Sheet L: Short Term Exposure Limit T: Specific Target Organ Toxicity Transportation of Dangerous Goods DOT: United States Department of Tr B: very Persistent and very Bioaccum L: Workplace Exposure Limit	ation Goods est population ation rel eration and Development kic substance elationship sation and Restriction of Chemicals Regulation (1907/2006/EC) onal Carriage of Dangerous Goods by Rail s (Canada) ansportation ulative substance Information System			
Oth Key literature reference and sources for data:	Chemical Classification and Info European Chemicals Agency (E Hazardous Substances Informa National Institute of Technology Swedish Chemicals Agency (KI	a sécurité du travail (CSST) prmation Database (CCID) ECHA) - Information on Chemicals tion System (HSIS) and Evaluation (NITE)			

Date: 25 March 2015

Procedure used to derive the classificati	on for mixtures according to Regulation (EC) No 1272/2008:			
Classification	Classification procedure			
Asp. Tox. 1, H304	On basis of test data			
Aquatic Chronic 3, H412	Calculation method			
Relevant H-statements: H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H360D: May damage fertility or the unborn child. H412: Harmful to aquatic life with long lasting effects.				
R52/53: Harmful to	g to eyes, respiratory system and skin. aquatic organisms, may cause long-term adverse effects in the aquatic environment. arm to the unborn child.			
Hazard pictogram names: Health hazar	d			
Changes to the SDS in this revision: Product identifier.				
Further information: None				
	by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied r's particular purpose. The user must make their own determination as to suitability.			