

## SAFETY DATA SHEET

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

Revision date:

Initial date of issue: 26 October 2018

**SDS No.** 1148

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

# 1.1. Product identifier

DualPac<sup>®</sup> 2212

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

Combination packing using polytetrafluoroethylene (PTFE) coated aramid and meta-aramid fibers. Suitable for use with process fluids including water, solvents, oil, mild acids and alkalis, pH 3-11.

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

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive, Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055 EU: Chesterton International GmbH, Am Lenzenfleck 23, D85737 Ismaning, Germany – Tel. +49-89-996-5460

## 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) NSW Poisons Information Centre (Australia): 13 11 26

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

## 2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

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. This product is an "article" according to OSHA 29 CFR 1910.1200 - Hazard Communication Standard and Regulation (EC) No 1907/2006 (REACH).

## 2.1.2. Australian statement of hazardous nature

Not classified as hazardous according to criteria of Safe Work Australia.

## 2.1.3. Additional information

This product is not classified as a "hazardous material" in normal use as defined in: 29 CFR 1910.1200, 1915, 1916, 1917, Massachusetts Right-To-Know Law, Chapter 40, Acts and Resolves of 1983 (M.G.L. O. 111F).

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / GHS

None
None
None
None
None

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## 2.3. Other hazards

None expected in industrial use. PTFE is nonhazardous at ambient temperatures. At temperatures above 260°C (500°F), toxic decomposition products may be emitted. Due to toxic decomposition, avoid smoking (wash hands to avoid transfer to tobacco products) when handling PTFE products.

SECTION 3: CO	OMPOSITION/INFORMAT	ION ON ING	REDIENTS		
3.2. Mixtures					
Hazardous Ingr	edients <sup>1</sup>	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
None					
<sup>1</sup> Classified accord	ing to: • 29 CFR 1910.1200, • 1272/2008/EC, GHS • WHMIS 2015 • Safe Work Australia	S, REACH	917, Mass. Right-to	o-Know Law (ch. 4	0, M.G.LO. 111F)
	RST AID MEASURES				
•	of first aid measures				
Inhalation:	If overcome by decompose Contact physician.	sition fumes,	remove to fresh	air. If not breath	ing, administer artificial respiration.
Skin contact:	Not applicable				
Eye contact:	Not applicable				
Ingestion:	Not applicable				
Protection of fir	rst-aiders: No special p	precautions.			
4.2. Most impor	tant symptoms and effect	cts, both acu	ite and delayed		
					be produced at temperatures above may cause temporary flu-like symptoms.
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptoms					
SECTION 5: FIREFIGHTING MEASURES					
5.1. Extinguishing media					
Use extinguishing media suitable for the surrounding fire.					
5.2. Special hazards arising from the substance or mixture					
Toxic fumes may be emitted at temperatures above 260°C (500°F). Product will burn in an atmosphere of > 95% oxygen, when an ignition source is present. See section 10.6 for hazardous combustion products.					
5.3. Advice for f	firefighters				
Recommend Fire	efighters wear self-containe	ed breathing	apparatus to pro	tect against haz	ardous decomposition products.
Flammability Cl	lassification: –				
HAZCHEM Eme	rgency Action Code: 1	Z			
SECTION 6: AC	CIDENTAL RELEASE M	EASURES			
6.1. Personal p	recautions, protective eq	uipment and	l emergency pro	ocedures	
-	Utilize exposure controls and personal protection as specified in Section 8.				
6.2. Environmental Precautions					
No special requirements.					
6.3. Methods and material for containment and cleaning up					
No special steps	No special steps required. Nontoxic.				

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6.4. Reference to other se	ctions					
Refer to section 13 for disposal advice.						
SECTION 7: HANDLING A	ND STORAGE					
7.1. Precautions for safe h	andling					
Not recommended for use in handling to avoid transfer to			rvice. Do not	smoke when	handling PTFE products	; wash hands after
7.2. Conditions for safe st	orage, including	g any incom	patibilities			
Store in a cool, dry area.						
7.3. Specific end use(s)						
Not applicable						
SECTION 8: EXPOSURE	CONTROLS/PER	SONAL PR	OTECTION			
8.1. Control parameters						
Occupational exposure lin	nit values					
Ingredients	OSHA ppm	NPEL <sup>1</sup> mg/m <sup>3</sup>	ACGII ppm	H TLV <sup>2</sup> mg/m <sup>3</sup>	UK WEL <sup>3</sup> ppm mg/m <sup>3</sup>	AUSTRALIA ES <sup>4</sup> ppm mg/m <sup>3</sup>
None		-		-		
<sup>1</sup> United States Occupationa						
<ul> <li><sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values</li> <li><sup>3</sup> EH40 Workplace exposure limits, Health &amp; Safety Executive</li> </ul>						
<sup>4</sup> 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 using under extreme heat, use local exhaust.						
8.2.2. Individual protection measures						
Respiratory protection:	Not required.					
Protective gloves:	Not normally ne	eded.				
Eye and face protection:	Not normally ne	eded.				
Other:	None					
8.2.3. Environmental exposure controls						
No special requirements.						

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Physical state	solid	Odour	odorless
Colour	white/yellow	Odour threshold	not applicable
Initial boiling point	not applicable	Vapour pressure @ 20°C	not applicable
Melting point	not applicable	% Aromatics by weight	not applicable
% Volatile (by volume)	not applicable	рН	not applicable
Flash point	not applicable	Relative density	not applicable
Method	not applicable	Weight per volume	not applicable
Viscosity	not applicable	Coefficient (water/oil)	not applicable
Autoignition temperature	not applicable	Vapour density (air=1)	not applicable
Decomposition temperature	not determined	Rate of evaporation (ether=1)	not applicable
Upper/lower flammability	not applicable	Solubility in water	insoluble
or explosive limits			
Flammability (solid, gas)	not applicable	Oxidising properties	not applicable
Explosive 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

Extreme heat above 260°C (500°F).

#### 10.5. Incompatible materials

None known

## 10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, trace amounts of Hydrogen Fluoride, Carbonyl Fluoride, Perfluorocarbon olefins and other toxic fumes may be evolved above 260°C (500°F).

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

**Primary route of exposure** Inhalation (PTFE decomposition fumes) and skin contact.

under normal use:

Acute effects:	PTFE is nontoxic at ambient temperatures. However, small quantities of toxic gases may be produced at
	temperatures above 260°C (500°F), due to PTFE decomposition. Inhalation of these decomposition
	products may cause temporary flu-like symptoms.

**Chronic effects:** None known

This product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Carcinogenicity: Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or the European Chemicals Agency (ECHA).

Aspiration hazard: Not applicable

Other information: None known

## 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

This material is not toxic to aquatic life. It is essentially inert to the environment.

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## 12.2. Persistence and degradability

PTFE: material is chemically unreactive and nonbiodegradable.

## 12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

Solid. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

### 12.5. Results of PBT and vPvB assessment

Not available

## 12.6. Other adverse effects

None

## SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Unused product is not a regulated waste. Not classified as hazardous according to 2008/98/EC. Check local, state and national/federal regulations and comply with the most stringent requirement.

## SECTION 14: TRANSPORT INFORMATION 14.1. UN number

ADG/ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.2. UN proper shipping name	
ADG/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)	
ADG/ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.4. Packing group	
ADG/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 Ann	ex II of MARPOL73/78 and the IBC Code
NOT APPLICABLE	
14.8. Other information	
NOT APPLICABLE	
SECTION 15: REGULATORY INFORMAT	
15.1. Safety, health and environmental re-	egulations/legislation specific for the substance or mixture
15.1.1. Ell regulations	

## 15.1.1. EU regulations

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulat	ions: None				
15.1.2. National regulations					
US EPA SARA TITLE III					
312 Hazards:	313	Chemicals:			
None	Nor	ne			
Other national re	gulations: None				
15.2. Chemical s	afety assessment				
	•	carried out for this substance/mixture by the supplier.			
Abbreviations and acronyms:	ADG: Australian Dangero ADN: European Agreema ADR: European Agreema ADR: European Agreema ATE: Acute Toxicity Estin BCF: Bioconcentration Fa CATpE: Converted Acute CLP: Classification Label ES: Exposure Standard GHS: Globally Harmonize ICAO: International Marii LC50: Lethal Concentrati LD50: Lethal Dose to 50° LOEL: Lowest Observed N/A: Not Applicable NA: Not Applicable NOEL: No Observed Effe OECD: Organization for I PBT: Persistent, Bioaccu (Q)SAR: Quantitative Str REACH: Registration, Ev REL: Recommended Exp RID: Regulations concern SDS: Safety Data Sheet STOT RE: Specific Targe STOT SE: Specific Targe TDG: Transportation of D TWA: Time Weighted Av US DOT: United States D vPvB: very Persistent and WEL: Workplace Exposu WHMIS: Workplace Haza Other abbreviations and <b>Terences</b> Commission de data: Chemical Class European Che	ent concerning the International Carriage of Dangerous Goods by Inland Waterways ent concerning the International Carriage of Dangerous Goods by Road nate actor Toxicity point Estimate ling Packaging Regulation (1272/2008/EC) ed System Aviation Organization time Dangerous Goods on to 50 % of a test population % of a test population Effect Level ect Concentration ect Level ect Concentration ect Level ect Concentration imulative and Toxic substance ucture-Activity Relationship aluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC) posure Limit ning the International Carriage of Dangerous Goods by Rail eure Limit et Organ Toxicity, Repeated Exposure to Organ Toxicity, Single Exposure to Organ Toxicity, Single Exposure angerous Goods (Canada) erage Department of Transportation d very Bioaccumulative substance			
	National Institute of Technology and Evaluation (NITE) Swedish Chemicals Agency (KEMI)				
Procedure used	U.S. National Library of Medicine Toxicology Data Network (TOXNET) Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:				
Classification					
Not applicable		Not applicable			
Relevant H-state	ments: None				
Hazard pictogram names: None					
Changes to the SDS in this revision: Original issue.					
Shanges to the t					

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#### Date of last revision: 26 October 2018

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.

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