

Safety Data Sheet Flap Disc



1. Identification	
Product identifier	Flap Disc
Product code	N.Av.
Other means of identification	N.Av.
Recommended use of the chemical and restrictions on use	Use for abrasive and grinding work with metal and stainless steel surfaces.
Manufacturer	Stanley Black & Decker Canada Corp. 6935 Picard Street St-Hyacinthe, QC Canada J2S 1H3 Tel. 450-774-4660 www.stanleyblackanddecker.com
Emergency phone number	450-774-4660

2. Hazard identification

Summary This product is not regulated according to the Canadian Hazardous Products Act (HPA) and Hazardous Products Regulations (HPR) (or WHMIS 2015/GHS) and to OSHA 29CFR Part 1910.1200 (HazCom 2012). Avoid breathing dust. Avoid contact with eyes. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.

WHMIS 2015/OSHA HCS 2012/GHS

Not Regulated under WHMIS 2015/GHS

P260: Do not breathe dust.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves, protective clothing and eye protection.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice or attention.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Aluminum oxide	1344-28-1	20 - 30 %
Limestone	1317-65-3	8 - 13 %
Zirconium Dioxide	1314-23-4	8 - 13 %
Trisodium hexafluoroaluminate (cryolite)	13775-53-6	1 - 8 %
Ethylene glycol	107-21-1	1 %
Potassium tetrafluoroborate	14075-53-7	1 - 8 %

4. First-aid measures				
Inhalation	Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.			
Skin contact	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.			
Eye contact	IMMEDIATELY flush with plenty of water. Flush with water for at least 15 minutes. Remove contact lenses. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.			
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If ingestion of a large amount does occur, seek medical attention or contact a Poison Centre immediately.			
Other	Grinding may create elevated sound levels (during grinding) which may affect hearing and pre-existing hearing condition(s). If a problem develops or persists, seek medical attention.			
Symptoms	Dust and powder may irritate throat and respiratory system and cause coughing. Dusts from this product may cause mechanical irritation to skin and eyes.			
Notes to the physician	Treat symptomatically.			

5. Fire-fighting measures

Suitable extinguishing media	Use appropriate extinguisher for surrounding fire.
Specific hazards arising from the chemical	No hazard listed.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask.
Special protective actions for fire-fighters	No additional information.

6. Accidental release measures					
Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.				
Environmental precautions	DO NOT throw dust into drains or waterways.				
Methods and materials for containment and cleaning up	Ventilate the area well. Vacuum or sweep up dust and place in an appropriate waste disposal container. Avoid generating dusty conditions.				

7. Handling and	7. Handling and storage					
Precautions for safe handling	Handle abrasive cutting off wheels and grinding wheels carefully to prevent damage from shock, heat, etc. Use all abrasive cutting off wheels and grinding wheels in accordance with all applicable federal and state safety codes and as directed in ANSI B7.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels. Also consult ANSI B.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels. Use only in well ventilated area. Avoid breathing dust. Use in a maner that avoids generating dust. Avoid contact with eyes. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound. Remove contaminated clothing and wash before reuse.					
Conditions for safe storage, including any incompatibilities	Store in dry protected area free from humidity, freezing temperatures or extreme temperature changes.					
Storage temperature	18 to 25°C (64.4 to 77°F)					

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	Zirconium oxide : 25 mg/m3, value as zirconium. Trisodium hexafluoroaluminate (cryolite): 250 mg/m3, value as F (fluoride). Potassium tetrafluoroborate: 250 mg/m3, value as F (fluoride).					
Aluminum oxide		TWA (8h)	Respirable Dust		1 mg/m ³	ACGIH , BC
			Total Dust		10 mg/m ³	ON , RSST
Limestone		STEL	Total Dust		20 mg/m ³	BC
		TWA (8h)	Total Dust		10 mg/m ³	ACGIH , BC, ON, RSST
Zirconium Dioxide		STEL	Value as Metal		10 mg/m ³	ACGIH , BC, ON, RSST
		TWA (8h)	Value as Metal		5 mg/m³	ACGIH , BC, ON, RSST
Ethylene glycol		Ceiling			100 mg/m ³	ON
			Aerosol	39.4 ppm	100 mg/m ³	ACGIH , BC
				50 ppm	125 mg/m ³	BC
				50 ppm	127 mg/m ³	RSST (RP)
Potassium tetrafluoroborate		TWA (8h)			2.5 mg/m ³	ACGIH , BC, ON, RSST
Trisodium hexafluoroaluminate (cryolite)		TWA (8h)	Value as Metal		1 mg/m ³	ACGIH , BC, ON
Appropriate	Provide sufficient mechanical (general and/or local exhaust) to keep the airborn concentrations of					

Appropriate	Provide sufficient mechanical (general and/or local exhaust) to keep the airborn concentrations of
engineering controls	dust below their respective occupational exposure limits. It is recommended to reduce the sound
	level in order not to exceed the standards OSHA 29CFR 1910.95, ANSI S3.19 and/or CSA Z94.2
	(Canada) for hearing protection devices. In addition, the hearing protection devices must be selected
	based to the sound spectrum emitted in the workplace.

Individual protection measures

-	
Еуе	Wear safety glasses. If risk of contact with eyes or the face, wear a face shield.
Hands	Wear leather gloves.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. If necessary, wear an apron or long-sleeve protective coverall suit.
Respiratory	A respirator is not required in a well-ventilated area. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. For nuisance exposures use type N95 particle respirator.
Feet	Wear safety shoes.



9. Physical and chemical properties						
Physical state	Solid wheel	Flammability	Non-flammable.			
Colour	Various colors	Flammability limits	N/Ap.			
Odour	Odourless	Flash point	N/Ap.			
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.			
рН	N/Ap.	Sensibility to electrostatic charges	No			
Melting point	N/Av.	Sensibility to sparks and/or friction	No			
Freezing point	N/Av.	Vapour density	N/Av. (Air = 1)			
Boiling point	N/Ap.	Relative density	Variable (Water = 1)			
Solubility	Insoluble in water.	Partition coefficient n-octanol/water	N/Ap.			
Evaporation rate	N/Ap.	Decomposition temperature	N/Av.			
Vapour pressure	N/Ap.	Viscosity	N/Ap.			
Percent Volatile	0%	Molecular mass	N/Ap.			
N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established						

10. Stability and reactivity

Reactivity	None reported.			
Chemical stability	Stable under normal conditions of use.			
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur under recommended storage.			
Conditions to avoid	None reported.			
Incompatible materials	None reported.			
Hazardous decomposition products	In use, the grinding wheel will generate dust and odors. In most cases, the material removed from the work piece will be significantly greater than that generated from the grinding wheel. Coolants, if used, may produce other decomposition products.			

11. Toxicolo	ogical informat	ion				
Numerical measures of toxicity	Aluminum oxide		-	>5000 mg/kg >2.6 mg/l/4h >2000 mg/kg	Rat	LD50 LC50 LD50
	Limestone			6450 mg/kg		LD50
	Zirconium Dioxide		-	>8800 mg/kg		
			Skin	>2000 mg/kg	Rabbit	LD50
	Ethylene glycol		Ingestion	1550 mg/kg	Human	
				4700 mg/kg		LD50
				>0.2 mg/l/4h		LC50
	-		Skin	10600 mg/kg		
	Trisodium hexafluoro	aluminate (cryolite)	-			LD50
			Skin	4.47 mg/l/4h >2000 mg/kg		LC50
	Potassium tetrafluoro	borate		5851 mg/kg		LD50
		borate	•	>5.3 mg/l/4h		LC50
				, e.e		
Likely routes of exposure	Skin, eyes, inhalation	l.				
Delayed,	Eye contact	Exposure to dust n	nay cause	redness and i	rritation	to eyes.
immediate and	Skin contact	Exposure to dust n	•			
chronic effects	Inhalation					irritate throat and respiratory
		-			d prolon	ged occupational overexposure to
	Ingestion	dusts may cause lu			duet ma	ay cause gastrointestinal irritation.
	Respiratory or skin					to 0.1% of this product are not skin
	sensitization	or respiratory sens	•		, oquu	
	IARC/NTP	No ingredients liste				
	Classification					
	Carcinogenicity	Ingredients presen listed as a carcino				to 0.1% of this product are not TP or OSHA.
	Mutagenicity	Ingredients in this known to cause m	•		greater	than or equal to 0.1% are not
	Reproductive toxicity	5 I I 5 I				
	Specific target organ toxicity -	Respiratory system, lungs.				
	single exposure					
	Specific target	Lungs.				
	organ toxicity - repeated exposure					
Interactive effects	No information available for this product.					
Other information	No additional information.					

12. Ecological information		
Ecological toxicity	Fish LC50 N.Av.	
Persistence	May persist in the environment.	
Degradability	The term biodegradability, as such, is not applicable to inorganic compounds.	
	No bioaccumulation.	

Bioaccumulative potential	
Mobility in soil	The product has no mobility in the soil. However, some ingredients (listed fluorides) are slightly soluble in water and have moderate mobility in wet soil.
Other adverse effects	This chemical does not deplete the ozone layer.

13. Disposal considerations

Container

Important! Prevent waste generation. Use in full. Waste product may be send to landfill. Empty containers can be treated (recycled) wherever there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. Transport information					
UN Number	UN				
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).				
Environmental hazards	This material is not listed as a marine pollutant.				
Special precautions for user	No information available for this product.				
TDG - Transportation of	Dangerous Goods (Canada)				
Transport hazard class(es)	Not regulated				
Packing group	Not regulated				
Emergency response guidebook 2012					
IMO/IMDG - Internationa	IMO/IMDG - International Maritime Transport				
Classification	Not regulated				
IATA - International Air Transport Association					
Classification	Not regulated				
	These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.				

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Aluminum oxide	1344-28-1		Х		Х
Limestone	1317-65-3			Х	
Zirconium Dioxide	1314-23-4		Х		
Trisodium hexafluoroaluminate (cryolite)	13775-53-6		x		
Ethylene glycol	107-21-1	Х	Х		Х
	14075-53-7		Х		

Potassium tetrafluoroborate

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Aluminum oxide	1344-28-1	Х		Х						
Limestone	1317-65-3	Х								
Zirconium Dioxide	1314-23-4	Х								
Trisodium hexafluoroaluminate (cryolite)	13775-53-6	х								
Ethylene glycol	107-21-1	Х	Х	Х		Х	Х			
Potassium tetrafluoroborate	14075-53-7	х								

- TSCA: Toxic Substance Control Act

- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances

- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals

- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances

- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant

- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants

- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention

- CWA 311: Clean Water Act - List of Hazardous Substances

- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

Common name	CAS	Cancer	Reproductive and Developmental Toxicity		
Ethylene glycol	107-21-1		X		
Other regulations					
	WHMIS 1988				

Non-WHMIS controlled



16. Other information		
Date (YYYY-MM-DD)	Stanley Black & Decker Canada Corp. 2016-08-29	
Version	01	

Other information	REFERENCES: - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php - TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, http://toxnet.nlm.nih.gov/ - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), http://www.reptox.csst.qc.ca - NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH
	 NIOSH Pocket Guide to Chemical Hazards, Centers for Disease Control and Prevention, NIOSH Publications, 2007, http://www.cdc.gov/niosh/npg/npg.html ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association OSHA: Occupational Safety and Health Administration (USA) NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program RSST: Règlement sur la santé et la sécurité du travail (Québec) GHS: Globally Harmonized System IARC: International Agency for Research on Cancer IDLH: Immediately Dangerous to Life or Health STEL: Short Term Exposure Limit (15 min) TWA: Time Weighted Averages WHMIS: Workplace Hazardous Materials Information System
	To the best of our knowledge, the information contained herein is accurate. However, neither Préventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.