IDENTITY (As Read on Label and Line)		Notice: Blank spaces are not permitted. If any item is not									
Super Heavy Duty Carbon Battery		applicable, or no information is available, the space mus be marked to indicate that.									
Stock numbers 37317 & 52											
Section I –Identification of the su	bstance/pre	paration and of the	compa	ny/undertaki	ing						
Manufacturer's Name		Telephone Number									
Draper Tools Ltd.		Draper Helpline +44 (0) 2380 494344 Opening hours 8:30-17:00 Monday to Friday.									
		Opening nours 8:	30-17:00	Monday to Fi	uay.						
Address (Number, Sheet, City, State, and ZIP Code)											
Hureley Road	Date Prepared  29 December 2018  Signature of Preparer (optional)										
Hursley Road Chandlers Ford Eastleigh Hampshire SO53 1YF											
							Section II -Composition/informa				
Hazardous Components (Specific Chemic								····	(contents, %/wt)		CAS No. 1313-13-9
Manganese Dioxide	(MnO <sub>2</sub> )		21.45% 21.63%		7440-66-6						
Zinc Zine Chloride	(Zn) (ZnCL2)	6.16%			7646-85-7						
Ammonium Chloride	(NH4CL)		0.22%								
Graphite Graphite	(C)	10.46%			12125-02-9 7782-42-5						
			14.86%								
Water	(H2O)		20.42%								
Ferrum	(Fe)		The state of the s								
Polyethylene	(PE)	1.76%			74-85-1						
Polyvinyl chloride	(PVC)	1.20%			93050-82-9						
Other			1.84%								
EU Battery Directive 2006-66-EC(		& US104-142			7439-97-6						
Mercury	(Hg)		< 0.0001 % < 0.0010%								
Lead	(Pb)		< 0.0010% < 0.0005%								
Cadmium Section III –Physical and chemi	(Cd)	AC	₹ 0.000.	) 70	7440-43-9						
	Car properti		_1)								
Boiling Point  KOH aqua solution = 140 °C		Specific Gravity ( $H_2O$ MnO <sub>2</sub> = 4.4, Zn = 7									
Vapor Pressure (mmHg)		Melting Point									
Vapor Pressure (mmHg)  KOH aqua solution = 3mmHg at 20 °C		MnO <sub>2</sub> decompose at									
		$Z_n = 420  ^{\circ}\text{C}$ , KOH aqua = $-35  ^{\circ}\text{C}$		35 °C							
Vapor Density (Air = 1)		Evaporation Rate									
				(Butyl Acetate = 1)							
Solubility in Water KOH - complet	е			· · · · · · · · · · · · · · · · · · ·							
Appearance and Color			,								
	-	ite is also a black powde	r, Zinc is	a silver metal.							
Section IV –Fire-fighting measu		with stimulative order.									
		Flammable Limits		LEL	UEL						
Flash Point (Method Used)		Tallinaole Lillina									

	Incombustible		N	ot Available		
Extinguishing M	Media: See Specia	l Fire Fighting	g Procedure			
packed in their ounpackaged cells	original containers use LITH-X (Grap	since the fuel hite Base). In t	of the fire is his case, do not	basically pa use water.	per products.	extinguishers if cells are For bulk quantities of composition products.
Unusual Fire and E	Explosion Hazards					
		** - *****				
Section V –Stal	bility and reactiv	rity				
Stability	Unstable	Condition	ns to Avoid Do n	ot short circu	uit, charge or di	ispose of in fire.
	Stable	7				
Incompatibility (M	laterials to Avoid)	Hazard	ous polymerizat	ion will not	occur.	
Hazardous Decom	position or Byproduc	ts Not Av	ailable			
Hazardous May Occur Conditions to Avoid						
Polymerization	Will Not Occur	V		The same of		
Section VI -To	xicological infor	mation				
Route(s) of Entry.	Inhalatio	n? Yes	Skin?	Yes	Ingestion?	Yes
	when a c	ell vents KOH i and eyes shoul	s caustic alkali ar			risk is acute exposure Contact of electrolyte
	Ecological Inform					. 10
Cardnogenicity	NTP? Not Ava	****	Monographs? No			ated? Not Available
Signs and Sympton		KOH can ca	use chemical bu	rn upon cont	act with skin.	
Medical Condition Generally Aggrava		An acute ex	posure will not g	enerally agg	ravate any me	dical help.
Section VIII -	First-aid measur	es				
For eye con medical hel	<u></u>	oious amount of				, get
Section IX - A	ccidental release	measures				
	aken in Case Materia		Spilled Wipe	out by wet d	uster.	
	sposal considera	tions		,		1 200
General aba						
	andling and stor					
	Hazards identific					
	rt circuit, charge or		ire. Battery may	explode or l	eak.	
	Exposure contro	<del></del>	<del></del>			
Respiratory Protect	ction (Specify Type)	Not Av	ailable			

Ventilation	Local Exhaust  Not Available		Special  Not Available		
	Mechanical (General)		Other		
	Not Available		Not Available		
Protective Gloves	Gloves Butyl Eye Pro		on	Safety Glasses	
Other Protective C	lothing or Equipment				
	Not Avail	able			
Work / Hygienic P	ractices				
	Not Avail	lable			
Section XIV-	Regulatory Information				
Not A	vailable				
Section XV - C	Other Information				
Not A	vailable				
Section XV – C	Other Information				

Section XVI – Transportation Information

Golden Power "Super Heavy Duty Carbon Battery" are considered to be "dry cell" batteries and are not listed as dangerous goods under below regulations:

- Batteries, dry fulfills the requirement of U.S. Department of Transportation (DOT), Special Provision 130, i.e. they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.)".
- 2. International Civil Aviation Administration (ICAO) and International Air Transport Association (IATA Dangerous Goods Ragulation60th Edition 2019), Special Provision A123, i.e. "An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.) is forbidden from transportation."
- 3. International Maritime Dangerous Goods Regulations (IMDG)2018 edition does not regulate these batteries.

Examples of such batteries include alkali-manganese, silver oxide, zinc carbon, nickel metal hydride and nickel-cadmium batteries.