SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1

Issue Date 06-Nov-2014 Revision date 06-Nov-2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME:

83568 3.6V LI SCREWDRIVER

APPLICATIONS:

3.6v Lithium Ion Cordless Screwdriver

SUPPLIER:

Draper Tools Ltd Hursley Road Chandlers Ford Eastleigh Hampshire SO53 1YF

Draper Helpline +44 (0) 2380 494344

2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Symbols/Pictograms

None

Signal word

None

Hazard Statements

Not applicable

Precautionary Statements

Not applicable

Hazards not otherwise classified (HNOC)

No information available

Unknown acute toxicity

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Article

Chemical Name	CAS No	Weight-%
Nickel-cobalt-manganese ternary materials	-	30 - 32
Iron	7439-89-6	25 - 27
Graphite	7782-42-5	14 - 15
Copper	7440-50-8	13 - 15
Aluminum foil	7429-90-5	6-7
Polypropylene(PP)	9003-07-0	2 - 3
Lithium	7439-93-2	1-2

4. FIRST AID MEASURES

Description of first aid measures

General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician. Not an expected route of exposure. IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing.

Skin Contact

Wash hands thoroughly after handling. . Not an expected route of exposure. .

Eye contact Ingestion

Inhalation

Not an expected route of exposure. If swallowed, call a poison control center or

physician immediately. Rinse mouth.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas

Ensure adequate ventilation, especially in confined areas

Remove all sources of ignition

Use personal protection recommended in Section 8

Methods and material for containment and cleaning up

Pick up and transfer to properly labeled containers

Avoid release to the environment

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice

Ensure adequate ventilation, especially in confined areas

Avoid creating dust

Avoid contact with eyes

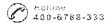
Wash thoroughly after handling

Use personal protection recommended in Section 8

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place

Keep away from heat



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Graphite (CAS #: 7782-42-5)	TWA: 2 mg/m³ respirable fraction all forms except graphite fibers	-	-	TWA: 2.5 mg/m ³	-
Copper (CAS #: 7440-50-8)	TWA: 0.2 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist	-	-	TWA: 1.0 mg/m³ TWA: 0.1 mg/m³	-
Aluminum foil (CAS #: 7429-90-5)	TWA: 1 mg/m ³ respirable fraction	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ Al Aluminum	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust TWA: 5 mg/m ³ Al	TWA: 5 mg/m ³ TWA: 2 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Aluminum foil (CAS #:	TWA: 2 mg/m ³	TWA: 10 mg/m ³	TWA: 1.5 mg/m ³	TWA: 4 mg/m ³	-
7429-90-5)		TWA: 5 mg/m ³	•	TWA: 1.5 mg/m ³	

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Aluminum foil (CAS #:	TWA: 2.5 mg/m ³	TWA: 10 mg/m ³ TWA:	TWA: 10 mg/m3 TWA:	TWA: 3 mg/m ³	TWA: 0.05 mg/m ³
7429-90-5)	TWA: 1.2 mg/m ³	5 mg/m ³	5 mg/m ³		

Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Graphite (CAS #: 7782-42-5)	-	-	3 mg/m³	STEL 10 mg/m ³ TWA: 5 mg/m ³	-
Copper (CAS #: 7440-50-8)	-	-	1 mg/m ³ 0.2 mg/m ³	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-
Aluminum foil (CAS #: 7429-90-5)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	STEL: 30 mg/m ³ STEL: 12 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³	10 mg/m ³ 5 mg/m ³	STEL 20 mg/m ³ TWA: 10 mg/m ³	-

Appropriate engineering controls

Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

Hand Protection Wear protective gloves.

Skin and body protection Wear suitable protective clothing.

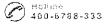
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Soli

Color No information available

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Odor Odorless

Odor Threshold Not determined PH Not determined

Melting point/freezing point

Boiling point / boiling range

Not determined

Not determined

Flash point / boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Flammability Limit in Air

Not determined

Not determined

Not determined

Not determined

Vapor PressureNot applicableVapor densityNot determinedDensityNot determinedRelative densityNot determined

Bulk densityNot determinedSpecific gravityNot determinedWater solubilityNot determinedPartition coefficient (LogPow)Not determined

Autoignition temperature

Decomposition temperature

Kinematic viscosity

Dynamic viscosity

Explosive properties

Not determined

Not determined

Not determined

Not an explosive

Not an explosive

Not determined

Other information

No information available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Strong heating. Incompatible materials

Incompatible materials

Strong acids Strong bases Strong oxidizing agents

Hazardous Decomposition Products

None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory

system

Eye contact Contact with eyes may cause irritation
Skin Contact Substance may cause slight skin irritation

Ingestion Ingestion may cause irritation to mucous membranes

Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron (CAS #: 7439-89-6)	98.6 g/kg bw (rat)	-	-
Copper (CAS #: 7440-50-8)	> 2500 mg/kg bw(rat)	> 2000 mg/kg bw(rat)	=1.03 mg/L/4 h(rat)
Polypropylene (CAS #: 9003-07-0)	>5 g/kg	-	

Skin corrosion/irritation

Non-irritating to the skin

Serious eye damage/eye irritation

No eye irritation

Sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

No information available

Reproductive toxicity

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Iron (CAS #: 7439-89-6)	-	-	> 100 mg/L/48h (Daphnia magna)
Copper (CAS #; 7440-50-8)	0.031 - 0.054 mg/L/96h Pseudokirchneriella subcapitata static 0.0426 - 0.0535 mg/L/72h Pseudokirchneriella subcapitata static	-	-

Persistence and degradability

No information available

Bioaccumulative potential

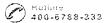
No information available

Mobility in soil

No information available

Other adverse effects

No information available



13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws

and regulations

Contaminated packaging Dispose of in accordance with federal, state and local regulations

	property of its decentation with reactal, state and local regulations					
Chemical Name	California Hazardous Waste Status					
Copper 7440-50-8	Toxic					
Aluminum foil 7429-90-5	Ignitable powder					

14. TRANSPORT INFORMATION

DOT

UN/ID No.
Proper shipping name
Hazard Class
Packing Group
Not regulated
Not regulated
Not regulated

Special precautions No information available

Marine pollutant Not applicable

15. REGULATORY INFORMATION

International Inventories

Component	AICS	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	TSCA
Iron 7439-89-6	Х	Х	×		×	X	Х	Х
Graphite 7782-42-5	Х	×	×	-	X	X	Х	X
Copper 7440-50-8	Х	×	Х	4	Х	Х	X	Х
Aluminum foil 7429-90-5	Х	Х	Х	w	Х	Х	Х	Х
Lithium 7439-93-2	Х	Х	х	Х	Х	Х	×	Х

[&]quot;-" Not Listed

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Aluminum foil - 7429-90-5	1.0

SARA 311/312 Hazard Categories

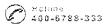
No information available

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8	-	Х	X	-

CERCLA

No information available



[&]quot;X" Listed

US State Regulations

California Proposition 65

No information available

U.S. State Right-to-Know Regulations

No information available

16. OTHER INFORMATION

Revision Note

Issue Date

06-Nov-2014

Revision date

06-Nov-2014

Revision Note

Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----