SAFETY DATA SHEET

Issuing Date 26-Apr-2019 Revision Date 24-Apr-2019 Revision Number 1

NGHS / English



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1. IDENTIFICATION

Product identifier

Product Name ONEPWR 4.0Ah Lithium-Ion Battery

Other means of identification

Product Code(s) 1515941

Recommended use of the chemical and restrictions on use

Recommended Use LITHIUM ION BATTERIES

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification TTi Floorcare

Address 8501 IBM DR.

Charlotte NC 28262 US

Telephone Phone:888-321-1134

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Emergency telephone number

Company Emergency Phone

Number

888-321-1134

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral Category 4



Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

This is a battery. In case of rupture: the above hazards exist.

Appearance Yellow Physical state Solid Odor Pleasant

GHS Label elements, including precautionary statements

Danger

Hazard statements

Harmful if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause cancer
May damage fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Contaminated work clothing must not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell



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Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity

91 % of the mixture consists of ingredient(s) of unknown toxicity

74 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

88 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Graphite	7782-42-5	20	-	-
Copper	7440-50-8	15	-	-
Iron	7439-89-6	10	-	-
Lithium Cobalt Oxide (CoLiO2)	12190-79-3	5	-	-
Aluminum	7429-90-5	5	-	-
Phosphate(1-), hexafluoro-, lithium	21324-40-3	3	-	-
Nickel	7440-02-0	1	-	-
Methyl propionate	554-12-1	1	-	-
Ethylbenzene	100-41-4	1	-	-
Chromium	7440-47-3	1	-	-
1-Methyl-2-pyrrolidone	872-50-4	1	-	-
Carbon black	1333-86-4	0.1	-	-

4. FIRST AID MEASURES

First aid measures

General advice First aid is upon rupture of sealed battery. Show this safety data sheet to the doctor in

attendance. Immediate medical attention is required. IF exposed or concerned: Get medical

advice/attention.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.



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Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an

allergic skin reaction. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8). Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up



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Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling In case of rupture: Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated

clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Graphite	TWA: 2 mg/m ³ respirable	TWA: 15 mg/m ³ total dust	IDLH: 1250 mg/m ³
7782-42-5	particulate matter all forms	synthetic	TWA: 2.5 mg/m ³ respirable
	except graphite fibers	TWA: 5 mg/m ³ respirable	dust
		fraction synthetic	
		(vacated) TWA: 2.5 mg/m ³	
		respirable dust natural	
		(vacated) TWA: 10 mg/m ³ total	
		dust synthetic	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction synthetic	
		TWA: 15 mppcf natural	
Copper	TWA: 0.2 mg/m ³ fume	TWA: 0.1 mg/m ³ fume	IDLH: 100 mg/m ³ dust, fume
7440-50-8		TWA: 1 mg/m ³ dust and mist	and mist
		(vacated) TWA: 0.1 mg/m ³ Cu	TWA: 1 mg/m ³ dust and mist
		dust, fume, mist	TWA: 0.1 mg/m ³ fume
Lithium Cobalt Oxide (CoLiO2)	TWA: 0.02 mg/m ³	-	
12190-79-3			
Aluminum	TWA: 1 mg/m ³ respirable	TWA: 15 mg/m ³ total dust	TWA: 10 mg/m ³ total dust
7429-90-5	particulate matter	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ respirable dust
		fraction	
		(vacated) TWA: 15 mg/m ³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
Phosphate(1-), hexafluoro-,	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F	IDLH: 250 mg/m ³ F
lithium	-	(vacated) TWA: 2.5 mg/m ³	



21324-40-3

Revision Date 24-Apr-2019

21027-70-0								
Nickel		TWA: 1.5 m	ng/m³		TWA: 1 mg/m ³		IDLH: 10 mg/m ³	
7440-02-0				(vacated) TWA: 1 mg/m ³			TWA: 0.015 mg/m ³	
Ethylbenzene		STEL = 125 ppm		TWA: 100 ppm		ID	LH: 800 ppm 10% LEL	
100-41-4		TWA: 100	ppm		: 435 mg/m ³		TWA: 100 ppm	
) TWA: 100 ppm		TWA: 435 mg/m ³	
				(vacated)	TWA: 435 mg/m ³		STEL: 545 mg/m ³	
				(vacated)	STEL: 125 ppm		STEL: 125 ppm	
					STEL: 545 mg/m ³			
Chromium		TWA: 0.5 mg/m ³	inhalable	TW	A: 1 mg/m ³		IDLH: 250 mg/m ³	
7440-47-3		particulate n	natter) TWA: 1 mg/m ³		TWA: 0.5 mg/m ³	
Carbon black		TWA: 3 mg/m ³	inhalable	TWA	: 3.5 mg/m ³		IDLH: 1750 mg/m ³	
1333-86-4		particulate n	natter	(vacated)	TWA: 3.5 mg/m ³		TWA: 3.5 mg/m ³	
				,	· ·	TWA	: 0.1 mg/m³ Carbon black	
						in	presence of Polycyclic	
							natic hydrocarbons PAH	
Chemical name		Alberta	British C	Columbia	Ontario TWAE	V	Quebec	
Graphite	-	TWA: 2 mg/m ³	TWA: 2	2 mg/m ³	TWA: 2 mg/m	13	TWA: 2 mg/m ³	
7782-42-5								
Copper		WA: 0.2 mg/m ³		mg/m³	TWA: 0.2 mg/r		TWA: 0.2 mg/m ³	
7440-50-8		TWA: 1 mg/m ³		2 mg/m ³	TWA: 1 mg/m		TWA: 1 mg/m ³	
Lithium Cobalt Oxide (CoLiO2) 12190-79-3	T۱	NA: 0.02 mg/m ³	TWA: 0.0	02 mg/m ³	TWA: 0.02 mg/	m ³	TWA: 0.02 mg/m ³	
Aluminum 7429-90-5	TWA	: 10 mg/m³ TWA: 5 mg/m³	TWA: 1.	0 mg/m ³	TWA: 1 mg/m	3	TWA: 10 mg/m ³ TWA: 5 mg/m ³	
Phosphate(1-), hexafluoro-, lithium 21324-40-3	Т	WA: 2.5 mg/m ³	TWA: 2.	5 mg/m ³	TWA: 2.5 mg/r	n ³	TWA: 2.5 mg/m ³	
Nickel 7440-02-0		WA: 1.5 mg/m ³		05 mg/m ³	TWA: 1 mg/m		TWA: 1 mg/m ³	
Ethylbenzene		ΓWA: 100 ppm	TWA: 2	20 ppm	TWA: 20 ppm	n	TWA: 100 ppm	
100-41-4		WA: 434 mg/m ³					TWA: 434 mg/m ³	
		STEL: 125 ppm					STEL: 125 ppm	
		ΓEL: 543 mg/m ³					STEL: 543 mg/m ³	
Chromium 7440-47-3	Т	WA: 0.5 mg/m ³	TWA: 0.	5 mg/m ³	TWA: 0.5 mg/r		TWA: 0.5 mg/m ³	
1-Methyl-2-pyrrolidone 872-50-4					TWA: 400 mg/r	m ³		
Carbon black 1333-86-4	Т	WA: 3.5 mg/m ³	TWA: 3	3 mg/m ³	TWA: 3 mg/m	3	TWA: 3.5 mg/m ³	

Other Exposure Guidelines

Hexavalent Chrome may be formed during welding. Vacated limits revoked by the Court of Appeals decision in AFL-CIO ν . OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.



Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling

the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical stateSolidAppearanceYellowOdorPleasant

Color No information available
Odor Threshold No information available

Property Values Remarks Method

pН No data available None known Melting / freezing point No data available None known Boiling point / boiling range No data available None known **Flash Point** No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownRelative densityNo data availableNone known

Water Solubility Insoluble in water

Solubility(ies) No data available None known

Partition coefficient: n-octanol/waterNot Determined

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

Explosive properties No information available No information available **Oxidizing properties Softening Point** No information available Molecular Weight No information available **VOC Content (%)** No information available **Liquid Density** No information available **Bulk Density** No information available **Particle Size** No information available **Particle Size Distribution** No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.

Chemical stability Stable under normal conditions.



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Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoidNone known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information

In case of rupture:

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components). Severely irritating to eyes. May cause burns. May cause

irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. May cause sensitization by

skin contact. Causes skin irritation. (based on components). Repeated or prolonged skin

contact may cause allergic reactions with susceptible persons.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Information on toxicological effects

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and

tearing of the eyes.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 901.30 mg/kg
ATEmix (dermal) 1,177.60 mg/kg
ATEmix (inhalation-gas) 20,250.00 mg/L
ATEmix (inhalation-dust/mist) 6.75 mg/L
ATEmix (inhalation-vapor) 49.50 mg/L

Unknown acute toxicity 91 % of the mixture consists of ingredient(s) of unknown toxicity

74 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 88 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 91 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

or 70 or the mixture consists of ingredient(c) or diministration toxicity (decermine)



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Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Iron	= 30 g/kg (Rat)	-	-
Nickel	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat) 1 h
Methyl propionate	= 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
1-Methyl-2-pyrrolidone	= 3914 mg/kg (Rat)	= 8 g/kg (Rabbit)	> 5.1 mg/L (Rat) 4 h
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationClassification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Lithium Cobalt Oxide	A3	Group 2B	Reasonably Anticipated	X
(CoLiO2)				
12190-79-3				
Nickel	-	Group 2B	Reasonably Anticipated	X
7440-02-0				
Ethylbenzene	A3	Group 2B	-	X
100-41-4				
Chromium	-	Group 3	-	-
7440-47-3				
Carbon black	A3	Group 2B	-	X
1333-86-4				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposureCauses damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.



12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Copper	96h EC50: 0.031 - 0.054	96h LC50: 0.0068 -	-	48h EC50: = 0.03 mg/L
	mg/L	0.0156 mg/L (Pimephales		Č
	(Pseudokirchneriella	promelas) 96h LC50: <		
	subcapitata) 72h EC50:	0.3 mg/L (Pimephales		
	0.0426 - 0.0535 mg/L	promelas) 96h LC50: =		
	(Pseudokirchneriella	0.2 mg/L (Pimephales		
	subcapitata)	promelas) 96h LC50: =		
	о на сег _р нанел,	0.3 mg/L (Cyprinus		
		carpio) 96h LC50: =		
		0.052 mg/L		
		(Oncorhynchus mykiss)		
		96h LC50: = 1.25 mg/L		
		(Lepomis macrochirus)		
		96h LC50: = 0.112 mg/L		
		(Poecilia reticulata) 96h		
		LC50: = 0.8 mg/L		
		(Cyprinus carpio)		
Iron	_	96h LC50: = 13.6 mg/L	_	
	-	(Morone saxatilis)	-	-
Nickel	72h EC50: = 0.18 mg/L	96h LC50: = 1.3 mg/L	-	48h EC50: > 100 mg/L
	(Pseudokirchneriella	(Cyprinus carpio) 96h		48h EC50: = 1 mg/L
	subcapitata) 96h EC50:	LC50: = 10.4 mg/L		
	0.174 - 0.311 mg/L	(Cyprinus carpio) 96h		
	(Pseudokirchneriella	LC50: > 100 mg/L		
	subcapitata)	(Brachydanio rerio)		
Ethylbenzene	72h EC50: = 4.6 mg/L	96h LC50: = 4.2 mg/L	EC50 = 9.68 mg/L 30 min	48h EC50: 1.8 - 2.4
·	(Pseudokirchneriella	(Oncorhynchus mykiss)	EC50 = 96 mg/L 24 h	mg/L
	subcapitata) 72h EC50:	96h LC50: = 9.6 mg/L	_	_
	2.6 - 11.3 mg/L	(Poecilia reticulata) 96h		
	(Pseudokirchneriella	LC50: 7.55 - 11 mg/L		
	subcapitata) 96h EC50:	(Pimephales promelas)		
	1.7 - 7.6 mg/L	96h LC50: 9.1 - 15.6		
	(Pseudokirchneriella	mg/L (Pimephales		
	subcapitata) 96h EC50: >	promelas) 96h LC50:		
	438 mg/L	11.0 - 18.0 mg/L		
	(Pseudokirchneriella	(Oncorhynchus mykiss)		
	subcapitata)	96h LC50: = 32 mg/L		
	,,	(Lepomis macrochirus)		
1-Methyl-2-pyrrolidone	72h EC50: > 500 mg/L	96h LC50: = 832 mg/L	-	48h EC50: = 4897 mg/L
	(Desmodesmus	(Lepomis macrochirus)		
	subspicatus)	96h LC50: = 1072 mg/L		
	, , , , , , , , , , , , , , , , , , , ,	(Pimephales promelas)		
		96h LC50: = 1400 mg/L		
		(Poecilia reticulata) 96h		
		LC50: = 4000 mg/L		
		(Leuciscus idus)		
Carbon black	-	-	-	24h EC50: > 5600 mg/L

Persistence and Degradability

No information available.

Bioaccumulation



Component Information

Chemical name	Log Pow
Ethylbenzene	3.2
1-Methyl-2-pyrrolidone	-0.46

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number D007

California Waste Codes 141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Copper	Toxic
7440-50-8	
Lithium Cobalt Oxide (CoLiO2)	Toxic
12190-79-3	
Aluminum	Ignitable powder
7429-90-5	
Nickel	Toxic powder
7440-02-0	Ignitable powder
Methyl propionate	Ignitable
554-12-1	·
Ethylbenzene	Toxic
100-41-4	Ignitable
Chromium	Toxic
7440-47-3	Corrosive
	Ignitable

14. TRANSPORT INFORMATION

Note:

The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule)



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Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision

188 of IMO-IMDG Code"

Proper Shipping Name

NOT REGULATED

NON-REGULATED

Hazard Class N/A Emergency Response Guide 147

Number

TDG Not regulated

MEX Not regulated

ICAO Not regulated

 IATA
 Not regulated

 Proper Shipping Name
 NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A EmS-No. F-A, S-I

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

RID Not regulated

ADR Not regulated

Tunnel restriction code (E)

ADN Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

TSCA

Contact supplier for inventory compliance status.

Legend

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

KECL - Korean Existing and Evaluated Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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	CAS No.	Weight-%	SARA 313 - Threshold Values %
Copper - 7440-50-8	7440-50-8	15	1.0
Lithium Cobalt Oxide (CoLiO2) - 12190-79-3	12190-79-3	5	0.1
Aluminum - 7429-90-5	7429-90-5	5	1.0
Nickel - 7440-02-0	7440-02-0	1	0.1
Ethylbenzene - 100-41-4	100-41-4	1	0.1
Chromium - 7440-47-3	7440-47-3	1	1.0
1-Methyl-2-pyrrolidone - 872-50-4	872-50-4	1	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8		X	X	
Nickel 7440-02-0		X	X	
Ethylbenzene 100-41-4	1000 lb	X	X	X
Chromium 7440-47-3		X	Х	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Copper	5000 lb		RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ
Nickel	100 lb		RQ 100 lb final RQ
7440-02-0			RQ 45.4 kg final RQ
Ethylbenzene	1000 lb		RQ= 1000 lb final RQ
100-41-4			RQ= 454 kg final RQ
Chromium	5000 lb 10 lb		RQ 5000 lb final RQ
7440-47-3			RQ 2270 kg final RQ RQ 10 lb
			final RQ



_		
ſ		RQ 4.54 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65	
Ethylbenzene - 100-41-4	Carcinogen	
Lithium carbonate - 554-13-2	Developmental	
Nickel - 7440-02-0	carcinogen, 10/1/1989 (metallic)	
1-Methyl-2-pyrrolidone - 872-50-4	Developmental	
Carbon black - 1333-86-4	Carcinogen	

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusett	Pennsylvania	Rhode Island	Illinois
		S			
Graphite	X	X	X		
7782-42-5					
Copper	X	X	X	X	Χ
7440-50-8					
Lithium Cobalt Oxide (CoLiO2)	X		X	X	Χ
12190-79-3					
Aluminum	X	X	X	X	
7429-90-5					
Phosphate(1-), hexafluoro-, lithium	Х				
21324-40-3					
Nickel	X	X	X	X	Χ
7440-02-0					
Methyl propionate	X	X	X		
554-12-1					
Ethylbenzene	X	X	X	X	X
100-41-4					
Chromium	Х	Х	Χ	X	Χ
7440-47-3					
1-Methyl-2-pyrrolidone	X	X	Х	X	
872-50-4					
Carbon black	Х	Х	Х		Х
1333-86-4					

16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical Properties HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal Protection X

Prepared By Product Stewardship
23 British American Blvd

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date 26-Apr-2019

Revision Date 24-Apr-2019



Revision Note

No information available

Disclaimer

The information provided in this 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



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31713 94500000 4400163

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Carpet cleaner

Restrictions on use Uses other than those identified are not recommended

Details $\hat{\sigma}^{H}$

Supplier Address

Royal Appliance Mfg. Co. d/b/a TTI Floor Care North America 8405 IBM Drive

Charlotte, NC 2

Serious eye damage

Hazards not other Not applicable

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/eye protection/face protection

Hoover Oxy Portable Spot Cleaner

Revision date 30-May-2024

> 93.3 °C / 200 °F Flash point

Encessivation rate Rinslatanavthila like/er give anything by mouth to an unconscious person. Do NOT induce

Flamm vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin

f any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to lo

Specific hazards arising from the No information available. No information available not contain any hazardous materials with biological limits established by the region specific chemical requiatory bodies.

Explosion data

Sensitivity to mechanical impact None. Appropriate engineering controls

Sensitivity to static discharge Engineering controls

None Showers

Special protective equipment and

precautions for fire-fighters

Eyewash stations Freti Ventilation system**s**

sibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

y procedures
Strong acids. Strong bases. Strong oxidizing agents. Incompatible materials

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal Personal precautions

Hazardous deco protective equipment as required.

Other information Refer to protective measures listed in Sections 7 a

hemical properties

Information on basic physical and chemical properties

Physical state Liquid

nd storage **Appearance** Clear to hazy Color colorless **Pres**autions for safe handling fresh air

No information available Odor threshold

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin eyes or clothing. Do not eat, drink respanse whose using this prod y gastrointestinal irritation, nausea, vomiting and diarrhea. cause

Property

Symptoms related to the physical, chemical and toxicological characteristics

re is no data for this pro

Component Information

13. Disposal considerations

Chemical name

Phosphonic acid, (1-hydroxyethylidene)bis-2809-21-4

hemical properties

Other adverse effects

No information available.

Hoover Oxy Portable Spot Clear

Symptoms

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calcula

7722-84-1 Hydrogen peroxide Chemical name

Property •

Odor

Color

Appearance

fresh air coloriess Clear to hazy Information on basic physical and chemical properties

Liquid

Clock beautiful and chemical properties

Odor threshold No information available

Values

Respiratory protection

kin and body protection

Engineering controls Skin corrosion/irritation

Showers Elevality iten based on data available for ingredients. Irritatins Mear suitable ক্রিটার্মন ক্রিটার্মান্ট্র চাল্ডার sleeved clothing.

Ventilation systems

exceeded of intitation is exbelienced of shortain any hazardous materials with biological limits established by the region spe

No protective anguipment is needed under not make the modern of the mode

information available.

STOT - single exposure No information available.

STOT - repeated exposure

No information available.

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Exposure Limits

Control parameters

8. Exposure controls/personal protection

Т

Storage Conditions

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

Decomposition temperature Autoignition temperature Partition coefficient DSL/NDSL PRECE/PLANGS PARS solubility Solubility(ies) Partition coeffici **TSCA**

Section 313 of Title III of the-S

No data available No data available No data available

Listed on Delable Listed on Delabe Conflect supplied for inventory compliance status. No data available No data available

USFEderal/Regulah/Roote ction Agency ChemView Database European Food Safety Authority (EFSA)
SARACENIZOnmental Protection A Agency for Toxic Substances and Disease Registry (ATSDR) AIIC - Australian Inventory of Industries for the last to compile the SDS PICCS - Philippines Inventory of Chemicals and Chemical Substances ting and Evaluated Chemical Substances

sibility of hazardous reactions None under normal processing.

None known based on information supplied. Conditions to avoid

Strong acids. Strong bases. Strong oxidizing agents. Incompatible materials

Hazardous dec●

CERCLA 1310-73-2 1000 lb odium hydroxide

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Co Environmental Response Compensation and Lia/

respiratory tract.

Eye contact

(based on components). May cause redness, itching, and pain. Specific test data for the substance or mixture is not available. Causes

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Other information **Explosive properties** Oxidizing properties Softening point Molecular weight

No information available No information available No information available No info

Symptoms

Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calcula

f any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

tion toxicity (gas)

1.45247 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

5. Fire-fighting measures

Component information		31713 04500000 440016306		
Suitable Chamical pame Media Use Oral LD50ing measu		es that are estimated to to to	Inhalation LC50	
Synonywisogen peroxide 7722-84-1	=N518 mg/kg (B			
Recommended use of the cher	nical and restrictions on use			
Recommended use	Carpet cleaner			
Restrictions on use	Uses other than those ide	ntified are not recommended		
	25 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-	
Details o•				

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Classification based on data available for ingredients. Irritatin

rmation available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide	A3	Group ø		
7722-84-1				

information available.

r warranty, express or implied is made

concerning the information provided. 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 is

STOT - single exposure No inform

No information available.

STOT - repeated exposure No information available.

Hoover Oxy Portable Spot Cleaner

Revision date 30-May-2024

Flash point > 93.3 °C / 200 °F

Exegratratigamraffects Respaitatatvaitarbiem, Eyes, Skin.

Flamm₈

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effect

EC50: 18 - 32mg/L (48h, Daphnia magna)

- 56mg/L (96h, Lepomis macrochirus) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss)

Phosphonic acid, LC50: =868mg/L (96h,

25 mg/kg(Rabomis macrochinos) mg/kg(Rabbit) (1-hydroxyethylidene)bis-

2809-21-4

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating

re is no data for this product.

Component Information

Chemical name Partition coefficient

Phosphonic acid, (1-hydroxyethylidene)bis--3.5 2809-21-4

Other adverse effects No information available.

13. Disposal considerations

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DOT Not regulated

14. Transport information

a hazardous waste. California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

cause

tainers.

Revision date 30-May-2024 Hoover Oxy Portable Spot Cleaner

Not regulated

15. Regulatory information

IMDG Not regulated

15. Regulatory information

International Inventories

TSCA Listed.
DSL/NDSL Listed on DSL.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS

ntact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List **EINECS/ELINC\$**

ting and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the S

A 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following sul

odium hydroxide 1310-73-2	1000 lb	-	-	Х

CERCI A

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Lia

concerning the information provided	The information relates only	r warranty, express	or implied is made RQ

concerning the information provided. The information relates only to the specific material designated and may in all the valid for such material used in combination with any other materials or in any p

US State Regulations

U.S. State Right-to-Know Regulations

Revision date 30-May-2024

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Hydrogen peroxide 7722-84-1	X	X	X
Sodium hydroxide 1310-73-2	Х	X	Х

U.S. EPA Label Information

PA Pesti ^y	

ge) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value * Skin designation

rces for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection A₂

rdous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIO

ssification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production

available.

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r warranty, express or implied is made concerning the information provided. 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 *p