

LI-ION BATTERY PRODUCT DATA SHEET – North America

Product Name: Lithium-Ion Battery Packs (less than or equal to 100 Watt Hours)

*** Section 1 – Identification ***

Product Identifier: Detachable Battery Packs

BLACK+DECKER

(7 Volt) - VPX0111

(12 Volt Max) - LB12, LBX12, LBXR12, LBXR1512, BCB001, BDCB12B,
BDCB12UC, BDCB12U

(20 Volt Max) - LB20, LBX20, LBXR20, LBXR2020, LB2X4020, LBXR20BT,
LBXR2520, LB2X3020

(40 Volt Max) - LBXR36, LBX1540, LBXR2036, LBX2040, LBX2540

(20V Max/60 Volt Max) - LBX1560

BOSTITCH

(20 Volt) - BCB203, BCB204

CRAFTSMAN

(20 Volt) – CMCB201, CMCB2011, CMCB202, CMCB204, CMCB205, CMCB2015

(40 Volt) – CMCB98025, CMCB98026, CMCB98027

(60 Volt Max) – CMCB6025 Battery pack is considered 3 batteries each with a
rating of 50 Whr when not inserted in a tool or a charger
CMCB6050 Battery pack is considered 3 batteries each with a
rating of 100 Whr when not inserted in a tool or a charger

CUB CADET

(60 Volt Max) – CC6025 Battery pack is considered 3 batteries each with a rating
of 50 Whr when not inserted in a tool or a charger
CC6050 Battery pack is considered 3 batteries each with a rating
of 100 Whr when not inserted in a tool or a charger

DEWALT

(8 Volt) - DCB080

(12 Volt Max) - DCB120, DCB127, DCB122, DCB124, DCB124G, DCB126,
DCB126G

(20 Volt Max) - DCB200, DCB201, DCB203, DCB203BT, DCB204, DCB204BT,
DCB205, DCB205BT, DCB207, DCB230, DCB240, DCBP034,
DCBP034G, DCBP520

(20Volt Max/60Volt Max) - DCB606 with Transport Cap. Battery pack is
considered 3 batteries each having a Whr rating of 40 Whr with
Transport Cap in place,
DCB609 with Transport Cap. Battery pack is considered 3 batteries
each having a Whr rating of 60 Whr with Transport Cap in place,
DCB609G with Transport Cap. Battery pack is considered 3 batteries
each having a Whr rating of 60 Whr with Transport Cap in place,
DCB612 with Transport Cap. Battery pack is considered 3 batteries
each having a Whr rating of 80 Whr with Transport Cap in place
DCB615 with Transport Cap. Battery pack is considered 3 batteries
each having a Whr rating of 100 Whr with Transport Cap in place

(36 Volt) - DC9360, DE9360, DCB361

MAC Tools

(12 Volt Max) - MB120, MB127, MBR127, MBR124, MBR124G, MBR126,
MBR126G

(20 Volt Max) - MB200, MB201, MB203, MB204, MB205, MBR203, MBR204,
MBR205

POP

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(18 Volt) - EBC180, EBC181, EBC182, EBC183, EBC184

PORTER-CABLE

(18 Volt) - PC18BL, PC18BLX, PC18BLEX

(20 Volt Max) - PCC680L, PCC681L, PCC685L, PCC682L, PCC683L

Stanley FatMax

(12 Volt Max) - FMC080L

(18/20 Volt) - FMC680L, FMC684L, FMC685L, FMC686L, FMC687L, FMC688L, FMC689L

Alemite

(14.4 Volt) – 343432

(20 Volt) – 343291, 343521

John Deere

(14.4 Volt) – TY27456

(20 Volt) – TY27458

Lincoln

(12 Volt) – 1261

(20 Volt) – 1871, 1872

SKF

(20 Volt) – 280151

Integral Battery Packs (contained within products, non-removable)

3.6 Volt – SW9007+, EPP36L15+, BDCSFL20BP, BDCSFS30BP, ORB36+, N506507, AEPP36LA-2

7.2 Volt- DB72L+, ORB72L+, MPP72L+, EPP72L15D+, EPP72L20D+, G9L72+, SW9007A+, AEPP72L+, GSL700, EPPRF72L+, SW9007A+

8 Volt – 18650-2S

10.8 Volt – DB108L+, 315LPF+, MPP108L+, MPP108LP+, G9L108+, FL108+, G95L108+, PH108L+, G3L108+, EPP108PVX

12 Volt – G11L315++, G11L320++, G11L325++, BHSB315J, BHSB320JP

14.4 Volt – DB144L+, 415LPF+, MPP144L+, G2L144+, G3L144+, G9L144+

16 Volt – G11L415++

18 Volt – DB18L+, FV18L+, 515LPF+, MPP18L+, BFH18L+, BFS18L+, G2L18+, G3L18+, G9L18+, BFH18+, BFS18+, G11L520++, G11L525++, BF525++

21.6 Volt – HPP6CL+, BF620L+, BF625L+, RT640L+

25.2 Volt – BF720L+, BF725L+

32.4 Volt – HPP9CL+

Note: + can be replaced by additional letters or numbers.

Notes: 1. A suffix following Catalog Number (i.e., “-XJ”) may be used to designate end market.

2. Batteries may be shipped in kits with the products they are intended to power.

Manufacturer Name: Stanley Black & Decker

Manufacturer Address: 1000 Stanley Drive
New Britain, CT 06053

Phone Number: 1-860-225-5111

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Emergency Phone Number: Chemtrec: +1 703-741-5970 / +1 800-424-9300

Recommended Use: To power Stanley Black & Decker products

Uses advised against: See instruction manual provided with product.

*** Section 2 - Hazards Identification ***

Classification

These batteries are not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). The batteries referenced in this document are considered "Articles," not "Materials," as defined by the Occupational Safety and Health Administration's Hazard Communication Standard, and as such are exempted from the requirements to publish MSDS sheets per the Code of Federal Regulations 29 CFR 1910.1200 (b)(6)(v). The hazards indicated below cover the abnormal situation where a battery ruptures.


| | |
|--|---------------------------|
| Acute Toxicity – Oral | Category 4 |
| Acute Toxicity – Dermal | Category 4 |
| Acute Toxicity – Inhalation (Vapors) | Category 3 |
| Acute Toxicity – Inhalation (Dusts/Mists) | Category 2 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 1A |
| Reproductive Toxicity | Category 1A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 1 |

GHS Label elements, including precautionary statements

Emergency Overview

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| | | | |
|---|-----------------------------|--|------------------|
| Signal Word | Danger | | |
| Hazard Statements | | | |
| Harmful if swallowed | | | |
| Harmful in contact with skin | | | |
| Fatal if inhaled | | | |
| Causes severe skin burns and eye damage | | | |
| May cause an allergic skin reaction | | | |
| May cause cancer | | | |
| May damage fertility or the unborn child | | | |
| May cause respiratory irritation | | | |
| Causes damage to organs through prolonged or repeated exposure | | | |
|  | | | |
| This product is an article (battery) which contains chemical substances. Intended use of the product should not result in exposure to the chemical substances. In case of rupture, the above hazards exist. | | | |
| Appearance Solid | Physical state Solid | | Odor None |

*** Section 3 - Composition / Information on Ingredients ***

This battery is an article as defined by 29 CFR 1910.1200. Exposure to hazardous ingredients is not anticipated under normal product use.

| Chemical Name | CAS No. | Weight - % | Trade Secret |
|--|-------------|------------|--------------|
| Copper | 7440-50-8 | 10-30 | * |
| Steel Manufacture, chemicals | 65997-19-5 | 7-13 | * |
| Lithium hexafluorophosphate (LiPF6) | 21324-40-3 | 1-3 | * |
| Aluminum | 7429-90-5 | 7-13 | * |
| Lithium manganese oxide (LiMn2O4) | 12057-17-9 | 5-10 | * |
| Lithium Cobalt Oxide (LiCoO2) | 12190-79-3 | 5-10 | * |
| Lithium Nickel Manganese Cobalt Oxide (LiNiMnCoO2) | 346417-97-8 | 5-10 | * |
| Lithium nickel cobalt aluminum oxide (LiNiCoAlO2) | 193214-24-3 | 5-10 | * |
| Nickel | 7440-02-0 | 3-7 | * |
| Mixed Organic carbonates | | 10-14 | * |

* The exact percentage (concentration) of composition has been withheld as a trade secret. Composition of organic carbonates in the electrolyte solvent varies.

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*** Section 4 – First-Aid Measures ***

First Aid: Eyes

Flush eyes with lukewarm water for at least 30 minutes while holding the eyelids open. Seek immediate medical care.

First Aid: Skin

Remove contaminated clothing, shoes and leather goods. Flush with water for at least 30 minutes. Seek medical attention if symptoms persist.

First Aid: Ingestion

Never give anything by mouth if victim is unconscious. Rinse mouth thoroughly with water. Do not induce vomiting. Seek immediate medical attention.

First Aid: Inhalation

Remove person to fresh air away from source of contamination.

*** Section 5 – Fire-Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Battery cells may rupture when exposed to excessive heat. Electrolyte solution is flammable.

Hazardous Combustion Products

May release toxic fumes if burned or exposed to fire.

Extinguishing Media

Use water spray, fog, or regular foam. Use appropriate extinguishing agent for surrounding fires. A Class C fire extinguisher should be used on an electrical fire. For damaged or ruptured cells apply copious amounts of water spray and/or complete water immersion, if possible, to extinguish flame, reduce temperature, or contain a thermal runaway event in a lithium-ion battery.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear. Wear positive pressure self-contained breathing apparatus (SCBA). Lithium-ion batteries may reignite after the initial fire has been suppressed. Affected batteries should be stored in a safe place outside (restrict access, indicate hazard) for a minimum of 72 hours. Monitor temperature frequently to detect any potential new heat generation. In the instance of a repeated thermal event follow the firefighting methods above.

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*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal. Clean spill area with detergent and water; collect wash water for proper disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Avoid skin contact with the spilled material.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid damaging or rupturing battery.

Storage Procedures

Store in a dry location at room temperature. Avoid extreme heat or fire. Keep out of reach of children.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Not necessary under normal product use conditions.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Not necessary under normal product use conditions. Wear safety glasses if handling a damaged battery.

Personal Protective Equipment: Skin

Not necessary under normal product use conditions. Wear neoprene or natural rubber gloves when handling a damaged battery.

Personal Protective Equipment: Respiratory

Not necessary under normal product use conditions.

Personal Protective Equipment: General

Eyewash fountains and emergency showers are required.

*** Section 9 - Physical and Chemical Properties ***

| | | | |
|--|------------------------|--|------|
| Appearance: | Various shaped battery | Odor: | None |
| Physical State: | Solid | pH: | NA |
| Vapor Pressure: | NA | Vapor Density: | NA |
| Boiling Point: | NA | Melting Point: | NA |
| Solubility (H2O): | Insoluble | Specific Gravity: | NA |
| Evaporation Rate: | NA | VOC: | NA |
| Octanol/H2O Coeff.: | NA | Flash Point: | NA |
| Flash Point Method: | NA | Upper Flammability Limit (UFL): | NA |
| Lower Flammability Limit (LFL): | NA | Burning Rate: | NA |
| Auto Ignition: | NA | | |

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*** Section 10 - Stability and Reactivity ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Avoid exposure to elevated temperatures and fire.

Incompatibility

Not Available.

Hazardous Decomposition

May release toxic fumes if burned or exposed to fire.

Possibility of Hazardous Reactions

Not Available.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

If product is ruptured, material may cause irritation to the skin, eyes and respiratory tract.

B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Recycle battery. Do not dispose of in water bodies or sewer system. All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

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Product Name: Lithium-Ion Battery Packs (less than or equal to 100 Watt Hours)

| |
|---|
| *** Section 14 – Transport Information *** |
|---|

UN Number: UN3480

UN3481

UN Proper Shipping Name: Lithium-ion battery

Lithium-ion battery packed with or contained in equipment

Hazard Class: Class 9

Packing Group, if applicable: Packing Group II

Marine Pollutant: No

Batteries have been tested in accordance with Sub-section 38.3 of the UN Manual of Tests and Criteria. A lithium-ion battery Test Summary is available upon request. Use the current applicable regulations for the mode of transportation used to ship batteries. Proper training is required to offer batteries for shipment.

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*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis

None of these products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Canadian WHMIS Information

A: General Product Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

None

*** Section 16 - Other Information ***

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry, WHMIS = Workplace Hazardous Materials Information System (Canada)