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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 1 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Article
Trade name/designation : Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Professional use
Use of the substance/mixture : Lithium ion batteries

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

WH Brady nv
Poldergotestraat 9
9240 Zele
Belgium
T +32 52 45 78 11
regulatory_compliance_EMEA@bradycorp.com

1.4. Emergency telephone number

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|--------------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

Not applicable.

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 2 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

2.3. Other hazards

Other hazards : The battery contains organic electrolyte. Further actions are required in case of electrolyte leakage from the battery.

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|---|---|--|
| Aluminium | CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-002-00-1 | | Not classified |
| Polyethylene | CAS-No.: 9002-88-4 | | Not classified |
| Polyethylene terephthalate | CAS-No.: 25038-59-9 EC-No.: - EC Index-No.: - | | Not classified |
| Diethyl carbonate | CAS-No.: 105-58-8 EC-No.: 203-311-1 | | Flam. Liq. 3, H226 |
| dimethyl carbonate | CAS-No.: 616-38-6 EC-No.: 210-478-4 EC Index-No.: 607-013-00-6 | | Flam. Liq. 2, H225 |
| Ethylene carbonate | CAS-No.: 96-49-1 EC-No.: 202-510-0 | | Eye Irrit. 2, H319 STOT RE 2, H373 |
| ethyl methyl carbonate | CAS-No.: 623-53-0 EC-No.: 433-480-9 | | Flam. Liq. 2, H225 |
| Lithium hexafluorophosphate(1-) | CAS-No.: 21324-40-3 EC-No.: 244-334-7 | | Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1A, H314 STOT RE 1, H372 |
| Propylene carbonate | CAS-No.: 108-32-7 EC-No.: 203-572-1 EC Index-No.: 607-194-00-1 | | Eye Irrit. 2, H319 |
| Copper (Cu) | CAS-No.: 7440-50-8 EC-No.: 231-159-6 EC Index-No.: 029-026-00-0 | | Not classified |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 3 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------------|---|---|--|
| Lithium Nickel Cobalt Aluminum Oxides | EC-No.: 442-750-5 EC Index-No.: 028-058-00-2 | | Carc. 1A, H350i Acute Tox. 2 (Inhalation), H330 (ATE=0,05 mg/l/4h) STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Nickel (base metal) | CAS-No.: 7440-02-0 EC-No.: 231-111-4 EC Index-No.: 028-002-00-7 | | Not classified |
| Carbon black | CAS-No.: 1333-86-4 EC-No.: 215-609-9 EC Index-No.: - | | Not classified |
| carbon | CAS-No.: 7440-44-0 EC-No.: 231-153-3 | | Not classified |
| silicon | CAS-No.: 7440-21-3 EC-No.: 231-130-8;240-968-3 | | Not classified |
| iron | CAS-No.: 7439-89-6 EC-No.: 231-096-4 | | Not classified |
| sodium carboxy methyl cellulose | CAS-No.: 9004-32-4 EC-No.: 618-378-6 | | Not classified |
| Poly(vinylidene fluoride) | CAS-No.: 24937-79-9 EC-No.: 607-458-6 | | Not classified |
| Styrene butadiene rubber | CAS-No.: 9003-55-8 EC-No.: 618-370-2 | | Not classified |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-------------------|---|
| Additional advice | : First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. |
| Inhalation | : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician. |
| Skin contact | : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. |
| Eyes contact | : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician. |
| Ingestion | : Rinse mouth thoroughly with water. Get medical advice/attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------|-------------------------------------|
| Inhalation | : The following symptoms may occur: |
| Skin contact | : The following symptoms may occur: |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 4 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

Eyes contact : The following symptoms may occur:
Ingestion : The following symptoms may occur:

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Class L firefighting equipment. For large fire: Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards : May explode in fire.
Hazardous decomposition products in case of fire : On contact with water: Hydrofluoric Acid. Hydrogen. Toxic gases. soot. Cobalt. Copper. lithium. Phosphorus. nickel. Metal oxides.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 5 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures

: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Protect against water. Avoid shock and friction.

Storage conditions

: Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Keep at temperatures below 60 °C.

Packaging materials

: Do not pierce or burn, even after use.

Switzerland

Storage class (LK)

: LK 11/13 - Solids

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| | |
|---|---|
| Aluminium (7429-90-5) | |
| Austria - Occupational Exposure Limits | |
| Local name | Aluminium (als Metall) |
| MAK (OEL TWA) | 10 mg/m ³ (inhalable fraction) |
| MAK (OEL STEL) | 20 mg/m ³ (inhalable fraction) |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 6 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|--|---|
| Aluminium (7429-90-5) | |
| Regulatory reference | BGBl. II Nr. 339/2025 |
| Austria - Biological limit values | |
| Local name | Aluminium-haltige Staube und Rauche |
| BLV | 60 µg/g creatinine Parameter: Aluminium - Untersuchungsmaterial: Harn |
| Remark | Eignung mit vorzeitiger Folgeuntersuchung: Bei berschreiten des Grenzwertes fr Aluminium im Harn. Bei Vorliegen einer wesentlichen Beeintrachtigung der Lungenfunktion. Diese liegt vor, wenn nach mehrmaliger Messung der beste gemessene Wert den fr den/die Untersuchte/n magebenden Sollwert um 20% unterschreitet, bzw. den MEF50-Sollwert um 50% unterschreitet. Eine vorzeitige Folgeuntersuchung ist jedoch nicht erforderlich, wenn im Vergleich zu Vorbefunden der altersabhangige physiologische Abfall der 1 Sekundenkapazitat (FEV1) von 40 ml/Jahr nicht berschritten wird oder aus der Beurteilung des Kurvenverlaufes der Forcierten Vitalkapazitat (FVC) eine eingeschrankte Mitarbeit des Untersuchten/der Untersuchten ersichtlich ist. Der Zeitabstand zwischen den Untersuchungen betragt bei Eignung: ein Jahr; bei Eignung mit vorzeitiger Folgeuntersuchung: sechs Monate. |
| Regulatory reference | Verordnung ber die Gesundheitsberwachung am Arbeitsplatz 2024 (VG) |
| Belgium - Occupational Exposure Limits | |
| Local name | Aluminium # Aluminium |
| OEL TWA | 1 mg/m ³ |
| Regulatory reference | Koninklijk besluit/Arrt royal 16/11/2023 |
| Bulgaria - Occupational Exposure Limits | |
| Local name | луминий |
| OEL TWA | 10 mg/m ³ (inhalable fraction) 1,5 mg/m ³ (respirable fraction) |
| Regulatory reference | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.) |
| Croatia - Occupational Exposure Limits | |
| Local name | Aluminij |
| GVI (OEL TWA) | 10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust) |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graninim vrijednostima izloženosti i biološkim graninim vrijednostima (NN 148/2023) |
| Croatia - Biological limit values | |
| Local name | Aluminij |
| BLV | 200 µg/l Parameter: Aluminum - Medium: urine - Sampling time: at the end of the work shift |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 7 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|--|---|
| Aluminium (7429-90-5) | |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/2018) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Hliník a jeho oxidy (s výjimkou gama Al ₂ O ₃) |
| PEL (OEL TWA) | 10 mg/m ³ (dust) |
| Remark | Prachy s převážně nespecifickým účinkem. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.) |
| Denmark - Occupational Exposure Limits | |
| Local name | Aluminium, pulver og støv |
| 8-timers grænseværdi (OEL TWA) | 5 mg/m ³ (total, dust and powder) 2 mg/m ³ (respirable, dust and powder) |
| Korttidsgrænseværdi (OEL STEL) | 10 mg/m ³ (total, dust and powder) 4 mg/m ³ (respirable, dust and powder) |
| Regulatory reference | BEK nr 1356 af 19/11/2025 |
| Estonia - Occupational Exposure Limits | |
| Local name | Alumiinium, metalliline ja oksiidid |
| OEL TWA | 10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust) |
| Remark | 1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad koos sissehingatava õhuga jõuda kopsualveoolidesse) |
| Regulatory reference | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13) |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 1 mg/m ³ |
| France - Occupational Exposure Limits | |
| Local name | Aluminium |
| VLEP 8h (OEL TWA) | 10 mg/m ³ (metal) 5 mg/m ³ (dust) |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Occupational exposure limit value (mg/m ³) (TRGS900) | 10 mg/m ³ (inhalable fraction (dust)) 1,25 mg/m ³ (respirable fraction (dust)) |
| Germany - Biological limit values (TRGS 903) | |
| Local name | Aluminium |
| Biological limit value | 50 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: at the end of the shift, in case of long-term exposure after several previous shifts |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 8 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|---|---|
| Aluminium (7429-90-5) | |
| Regulatory reference | TRGS 903 |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction) |
| Hungary - Occupational Exposure Limits | |
| Local name | ALUMINIUM (oldható, AL-ra számolva) |
| AK (OEL TWA) | 1 mg/m ³ (respirable fraction) |
| Remark | N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Hungary - Biological Exposure Indices | |
| Local name | Alumínium |
| BEI | 0,25 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: alumínium - Biológiai minta: vizeletben - Mintavétel ideje: n.k. (nem kritikus) 0,06 mg/g creatinine Biológiai expozíciós (hatás) mutató: alumínium - Biológiai minta: vizeletben - Mintavétel ideje: n.k. (nem kritikus) |
| Remark | A foglalkozási vegyi expozíció esetén ajánlott biológiai expozíciós és hatásmutatók határértékei |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | Aluminium metal |
| OEL TWA | 1 mg/m ³ (respirable fraction) |
| OEL STEL | 3 mg/m ³ (calculated-respirable dust) |
| Remark | Advisory OELV (Advisory Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| Latvia - Occupational Exposure Limits | |
| Local name | Alumīnijs un tā sakausējumi |
| OEL TWA | 2 mg/m ³ |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191). |
| Latvia - Biological Exposure Indices | |
| Local name | Alumīnijs |
| BEI | 50 µg/g creatinine Alumīnijam urīnā |
| Remark | Ilgstošas iedarbības novērtēšanai paraugus iegūst maiņas beigās pēc vairākām iepriekšējām maiņām. |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 9 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|---|--|
| Aluminium (7429-90-5) | |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191). |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ (inhalable fraction) 2 mg/m ³ (respirable fraction) 1 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| Local name | Glin metaliczny, glin proszek (niestabilizowany) |
| NDS (OEL TWA) | 2,5 mg/m ³ (non-stabilized-inhalable fraction) 1,2 mg/m ³ (non-stabilized-respirable fraction) |
| Remark | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej. |
| Regulatory reference | Dz. U. 2024 poz. 1017 wraz z późn. zm. |
| Portugal - Occupational Exposure Limits | |
| Local name | Alumínio e compostos insolúveis, expresso em Al |
| OEL TWA | 1 mg/m ³ (metal-respirable fraction) |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Remark | A4 (Agente não classificável como carcinogénico no Homem) |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 3 mg/m ³ (dust) 1 mg/m ³ (fume) |
| OEL STEL | 10 mg/m ³ (dust) 3 mg/m ³ (fume) |
| Romania - Biological limit values | |
| BLV | 200 µg/l Parameter: Aluminum - Medium: urine - Sampling time: end of shift |
| Slovakia - Occupational Exposure Limits | |
| Local name | Hliník kovový |
| NPHV (OEL TWA) | 4 mg/m ³ (inhalable dust) 1,5 mg/m ³ (respirable dust) |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.) |
| Slovakia - Biological limit values | |
| Local name | Hliník |
| BLV | 60 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: not critical |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 10 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|--|---|
| Aluminium (7429-90-5) | |
| Regulatory reference | Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.) |
| Slovenia - Biological limit values | |
| Local name | aluminij |
| BLV | 50 µg/l Parameter: aluminij - Biološki vzorec: urin - Čas vzorčenja: pri dolgotrajni izpostavljenosti: ob koncu delovne izmene po več zaporednih delavnikih |
| Regulatory reference | Uradni list RS, št. 26/2025 z dne 18.4.2025 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu |
| Spain - Occupational Exposure Limits | |
| Local name | Aluminio |
| VLA-ED (OEL TWA) | 1 mg/m ³ (see UNE EN 481:1995 on workplace atmospheres-respirable fraction) |
| Remark | d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles). |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2026. INSHT |
| Sweden - Occupational Exposure Limits | |
| Local name | Aluminium – metall och oxid |
| NGV (OEL TWA) | 5 mg/m ³ (total dust) 2 mg/m ³ (respirable fraction) |
| Remark | 25 (Med inhalerbar och respirabel fraktion menas de dammfractioner som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar (utgåva 1, 1993). Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i en totaldammprovtagare) |
| Regulatory reference | Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Aluminium |
| WEL TWA (OEL TWA) | 10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust) |
| WEL STEL (OEL STEL) | 30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-respirable dust) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Ál, duft og ryk, sjá einnig kerskálaryk |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 11 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|---|---|
| Aluminium (7429-90-5) | |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 1069/2018) |
| Norway - Occupational Exposure Limits | |
| Local name | Aluminiumpulver (pyroteknikk) |
| Grenseverdi (OEL TWA) | 5 mg/m ³ (pyrotechnical-powder) |
| Korttidsverdi (OEL STEL) | 10 mg/m ³ (pyrotechnical-powder) |
| Regulatory reference | FOR-2025-12-18-2660 |
| Switzerland - Occupational Exposure Limits | |
| Local name | Aluminium métal / Aluminium (Metall) |
| MAK (OEL TWA) | 3 mg/m ³ (respirable dust) 3 mg/m ³ (total dust limit values-respirable dust) 10 mg/m ³ (total dust limit values-inhalable dust) |
| Notation | B / B |
| Remark | NIOSH |
| Regulatory reference | www.suva.ch, 01.01.2026 |
| Switzerland - BAT | |
| Local name | Aluminium métal / Aluminium (Metall) |
| BAT | 50 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: after several shifts (for long-term exposures) (metal) Parameter: Aluminum - Medium: urine - Sampling time: after several shifts (for long-term exposures) (metal) |
| Regulatory reference | Ordonnance 832.30 (OPA), article 50 al. 3, www.suva.ch/valeurs-limites / Verordnung 832.30 (VUV), Art. 50 Abs. 3, www.suva.ch/grenzwerte |
| USA - ACGIH® - Threshold Limit Values | |
| Local name | Aluminum, metal and insoluble compounds |
| ACGIH® TLV® TWA | 1 mg/m ³ (respirable particulate matter) |
| Remark (ACGIH®) | TLV® Basis: Pneumoconiosis; LRT irr; neurotoxicity. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH® chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2025 |

| | |
|--|---|
| Polyethylene (9002-88-4) | |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Prach polyethylenu |
| PEL (OEL TWA) | 5 mg/m ³ |
| Remark | Prachy s převážně dráždivým účinkem. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.) |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 12 / 32 |
| | | Revision nr : 1.0 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Issue date : 16/04/2026 |
| | | Supersedes : |

*****PROPOSAL*****

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|---|---|
| Polyethylene (9002-88-4) | |
| Lithuania - Occupational Exposure Limits | |
| Local name | Polietilenas |
| IPRV (OEL TWA) | 10 mg/m ³ |
| Regulatory reference | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12) |

| | |
|---|-----------------------------------|
| Diethyl carbonate (105-58-8) | |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 700 mg/m ³ 145 ppm |
| OEL STEL | 1000 mg/m ³ 207 ppm |

| | |
|--|--|
| Propylene carbonate (108-32-7) | |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Occupational exposure limit value (mg/m ³) (TRGS900) | 8,5 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Occupational exposure limit value (ppm) (TRGS900) | 2 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 2 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 7 mg/m ³ |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 25,5 mg/m ³ 6 ppm |
| KZGW (OEL STEL) | 25,5 mg/m ³ 6 ppm |

| | |
|---|--|
| Copper (Cu) (7440-50-8) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 1 mg/m ³ (inhalable fraction) 0,1 mg/m ³ (respirable fraction, smoke) |
| MAK (OEL STEL) | 4 mg/m ³ (inhalable fraction) 0,4 mg/m ³ (respirable fraction, smoke) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 0,2 mg/m ³ (fume) 1 mg/m ³ (dust and fume) |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 13 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|--|---|
| Copper (Cu) (7440-50-8) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 0,1 mg/m ³ (metal vapor) |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 0,2 mg/m ³ (fume) 1 mg/m ³ (dust) |
| KGVI (OEL STEL) | 2 mg/m ³ (dust) |
| Czech Republic - Occupational Exposure Limits | |
| PEL (OEL TWA) | 1 mg/m ³ (dust) 0,1 mg/m ³ (fume) |
| Denmark - Occupational Exposure Limits | |
| 8-timers grænseværdi (OEL TWA) | 1 mg/m ³ (dust and powder) 0,1 mg/m ³ (fume) |
| Korttidsgrænseværdi (OEL STEL) | 2 mg/m ³ (dust and powder) 0,2 mg/m ³ (fume) |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ (total dust) 0,2 mg/m ³ (fine dust) |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) | 0,02 mg/m ³ (respirable dust) |
| France - Occupational Exposure Limits | |
| VLEP 8h (OEL TWA) | 0,2 mg/m ³ (fume) 1 mg/m ³ (dust) |
| VLEP CT (OEL STEL) | 2 mg/m ³ (dust) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Occupational exposure limit value (mg/m ³) (TRGS900) | 0,2 mg/m ³ (inhalable fraction) 0,045 mg/m ³ (respirable fraction) |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 0,2 mg/m ³ (fume) 1 mg/m ³ (dust) |
| OEL STEL | 2 mg/m ³ (dust) |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 0,1 mg/m ³ 0,01 mg/m ³ (fume; respirable fraction) |
| CK (OEL STEL) | 0,2 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 0,2 mg/m ³ (fume) 1 mg/m ³ (dusts and mists) |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 14 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|--|--|
| Copper (Cu) (7440-50-8) | |
| OEL STEL | 2 mg/m ³ (dusts and mists) 0,6 mg/m ³ (calculated-fume) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 0,5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 1 mg/m ³ (inhalable fraction) 0,2 mg/m ³ (respirable fraction) |
| Netherlands - Occupational Exposure Limits | |
| TGG-8u (OEL TWA) | 0,1 mg/m ³ (inhalable) |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 0,2 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 0,2 mg/m ³ (fume) 1 mg/m ³ (dust; mist) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 0,5 mg/m ³ (dust) |
| OEL STEL | 0,2 mg/m ³ (fume) 1,5 mg/m ³ (dust) |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 1 mg/m ³ (inhalable fraction) 0,2 mg/m ³ (respirable fraction) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 0,01 mg/m ³ (see UNE EN 481:1995 on workplace atmospheres-respirable fraction) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 0,01 mg/m ³ (respirable fraction) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 1 mg/m ³ (dust and mist) 0,2 mg/m ³ (fume) |
| WEL STEL (OEL STEL) | 0,6 mg/m ³ (calculated-fume) 2 mg/m ³ (dust and mist) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 0,1 mg/m ³ (fume) 1 mg/m ³ (dust) |
| Korttidsverdi (OEL STEL) | 3 mg/m ³ (value calculated-dust) 0,3 mg/m ³ (value calculated-fume) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 0,1 mg/m ³ (inhalable dust) |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 15 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|--|--|
| Copper (Cu) (7440-50-8) | |
| KZGW (OEL STEL) | 0,2 mg/m ³ (inhalable dust) |
| USA - ACGIH® - Threshold Limit Values | |
| ACGIH® TLV® TWA | 0,2 mg/m ³ (fume) |

| | |
|--|--|
| Carbon black (1333-86-4) | |
| Belgium - Occupational Exposure Limits | |
| Local name | Carbone (noir de) # Koolzwart |
| OEL TWA | 3 mg/m ³ |
| Regulatory reference | Koninklijk besluit/Arrêté royal 16/11/2023 |
| Croatia - Occupational Exposure Limits | |
| Local name | Ugljik-crni |
| GVI (OEL TWA) | 3,5 mg/m ³ |
| KGVI (OEL STEL) | 7 mg/m ³ |
| Regulatory reference | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023) |
| Czech Republic - Occupational Exposure Limits | |
| Local name | Amorfní uhlík (Carbon Black) |
| PEL (OEL TWA) | 2 mg/m ³ (dust) |
| Remark | Prachy s převážně nespecifickým účinkem. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.) |
| Denmark - Occupational Exposure Limits | |
| Local name | Carbon black |
| 8-timers grænseværdi (OEL TWA) | 3,5 mg/m ³ |
| Korttidsgrænseværdi (OEL STEL) | 7 mg/m ³ |
| Remark | K (betyder, at stoffet anses for at kunne være kræftfremkaldende og omfattet af bekendtgørelse om foranstaltninger til forebyggelse af risikoen ved arbejde med kræftfremkaldende, mutagene eller reproduktionstoksiske stoffer og materialer) |
| Regulatory reference | BEK nr 1356 af 19/11/2025 |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 3 mg/m ³ |
| Finland - Occupational Exposure Limits | |
| Local name | Nokimusta |
| HTP (OEL TWA) | 3,5 mg/m ³ |
| HTP (OEL STEL) | 7 mg/m ³ |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 16 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|--|--|
| Carbon black (1333-86-4) | |
| Regulatory reference | HTP-ARVOT 2025 (Sosiaali- ja terveystieteiden ministeriö) |
| France - Occupational Exposure Limits | |
| Local name | Noir de carbone |
| VLEP 8h (OEL TWA) | 3,5 mg/m ³ |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65) |
| Greece - Occupational Exposure Limits | |
| Local name | Αιθάλη |
| OEL TWA | 3,5 mg/m ³ |
| OEL STEL | 7 mg/m ³ |
| Regulatory reference | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| Hungary - Occupational Exposure Limits | |
| Local name | Ipari korom [„Carbon Black“] |
| AK (OEL TWA) | 3 mg/m ³ (inhalable concentration (flying and fibrous powders)) |
| Regulatory reference | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| Ireland - Occupational Exposure Limits | |
| Local name | Carbon black |
| OEL TWA | 3 mg/m ³ (inhalable fraction) |
| OEL STEL | 15 mg/m ³ (calculated-inhalable fraction) |
| Remark | Advisory OELV (Advisory Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| Poland - Occupational Exposure Limits | |
| Local name | Sadza techniczna |
| NDS (OEL TWA) | 4 mg/m ³ (inhalable fraction) |
| Remark | Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych. |
| Regulatory reference | Dz. U. 2024 poz. 1017 wraz z późn. zm. |
| Portugal - Occupational Exposure Limits | |
| Local name | Carbono, preto (Negro de fumo) |
| OEL TWA | 3 mg/m ³ (inhalable fraction) |
| OEL chemical category | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Remark | A3 (Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem) |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 17 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|--|--|
| Carbon black (1333-86-4) | |
| Regulatory reference | Norma Portuguesa NP 1796:2014 |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 2 mg/m ³ (respirable fraction, 5% or less fibrogenic component) 10 mg/m ³ (respirable fraction, greater than 5% fibrogenic component) 10 mg/m ³ (total aerosol) |
| NPHV (OEL C) | 10 mg/m ³ (details in source table-solid aerosol) |
| Spain - Occupational Exposure Limits | |
| Local name | Negro de humo |
| VLA-ED (OEL TWA) | 3,5 mg/m ³ |
| Regulatory reference | Límites de Exposición Profesional para Agentes Químicos en España 2026. INSHT |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 3 mg/m ³ (inhalable fraction) |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Carbon black |
| WEL TWA (OEL TWA) | 3,5 mg/m ³ |
| WEL STEL (OEL STEL) | 7 mg/m ³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Iceland - Occupational Exposure Limits | |
| Local name | Kolefni |
| OEL TWA | 3,5 mg/m ³ |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |
| Norway - Occupational Exposure Limits | |
| Local name | Carbon Black (lampesot) |
| Grenseverdi (OEL TWA) | 3,5 mg/m ³ |
| Korttidsverdi (OEL STEL) | 7 mg/m ³ (value calculated) |
| Regulatory reference | FOR-2025-12-18-2660 |
| USA - ACGIH® - Threshold Limit Values | |
| Local name | Carbon black |
| ACGIH® TLV® TWA | 3 mg/m ³ (inhalable particulate matter) |
| Remark (ACGIH®) | TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| ACGIH® chemical category | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| Regulatory reference | ACGIH 2025 |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 18 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|--|---|
| carbon (7440-44-0) | |
| Austria - Occupational Exposure Limits | |
| Local name | Graphit (Alveolarstaub mit < 1% Quarz) |
| MAK (OEL TWA) | 5 mg/m ³ (with <1% Quartz-alveolar dust, respirable fraction) |
| Regulatory reference | BGBl. II Nr. 156/2021 |
| Poland - Occupational Exposure Limits | |
| Local name | Grafit syntetyczny |
| NDS (OEL TWA) | 6 mg/m ³ (regulated under Synthetic graphite-inhalable fraction) |
| Remark | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference | Dz. U. 2018 poz. 1286 wraz z późn. zm. |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Graphite |
| WEL TWA (OEL TWA) | 4 mg/m ³ respirable 10 mg/m ³ inhalable dust |
| WEL STEL (OEL STEL)* | 12 mg/m ³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

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|---|---|
| silicon (7440-21-3) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) | 10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust) |
| Denmark - Occupational Exposure Limits | |
| 8-timers grænseværdi (OEL TWA) | 10 mg/m ³ |
| Korttidsgrænseværdi (OEL STEL) | 20 mg/m ³ |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ 5 mg/m ³ (respirable dust) |
| OEL chemical category | Carcinogenic substance respirable dust |
| France - Occupational Exposure Limits | |
| VLEP 8h (OEL TWA) | 10 mg/m ³ |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction) |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 19 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|--|---|
| silicon (7440-21-3) | |
| Ireland - Occupational Exposure Limits | |
| OEL TWA | 4 mg/m ³ (respirable dust) 10 mg/m ³ (total inhalable dust) |
| OEL STEL | 30 mg/m ³ (calculated-respirable dust) 12 mg/m ³ (calculated-total inhalable dust) |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 10 mg/m ³ (inhalable fraction) 4 mg/m ³ (respirable fraction) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust) |
| WEL STEL (OEL STEL) | 12 mg/m ³ (calculated-respirable dust) 30 ppm (calculated-inhalable dust) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) | 10 mg/m ³ (set equal to the limit value for Nuisance dust) |
| Korttidsverdi (OEL STEL) | 20 mg/m ³ (set equal to the limit value for Nuisance dust) |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) | 3 mg/m ³ (respirable dust) |

| | |
|--|--|
| iron (7439-89-6) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 6 mg/m ³ (containing <2% free Crystalline silicon dioxide in respirable fraction-dust, inhalable fraction (Iron dust) |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) | 4 mg/m ³ (also alloys-inhalable fraction) 1,5 mg/m ³ (also alloys-respirable fraction) |

8.1.2. Recommended monitoring procedures

| | |
|---------------------------|---|
| Monitoring methods | |
| Monitoring methods | Personal air monitoring. Room air monitoring. |

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.1.5. Control banding

No additional information available

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| | SAFETY DATA SHEET | Page : 20 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

8.2. Exposure controls

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| Engineering measure(s) | : Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. |
| Personal protective equipment | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Hand protection | : Wear chemically resistant gloves (tested to EN374). Suitable material: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. |
| Eye protection | : Use suitable eye protection (EN ISO 16321-1:2022) |
| Body protection | : Wear suitable protective clothing |
| Respiratory protection | : Not required for normal conditions of use |
| Thermal hazard protection | : Not required for normal conditions of use. Use dedicated equipment. |
| Environmental exposure controls | : Avoid release to the environment. Comply with applicable Community environmental protection legislation. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|---|----------------------------|
| Physical state | : Solid |
| Colour | : Not available |
| Odour | : Not available |
| Odour threshold | : No data available |
| Melting / freezing point | : No data available |
| Freezing point | : Not available |
| Initial boiling point and boiling range | : No data available |
| Flammability | : Not available |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| pH value | : No data available |
| pH solution | : Not available |
| Kinematic viscosity | : No data available |
| Dynamic viscosity | : No data available |
| Solubility | : Water: No data available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Partition coefficient n-octanol/water | : No data available |
| Vapour pressure | : No data available |

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 21 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

Vapour pressure at 50°C : Not available
Density : Not available
Relative density : No data available
Vapour density : No data available
Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use. Reference to other sections 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not puncture. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

No dangerous reaction known under conditions of normal use. This product may release the following: Hydrogen fluoride. Carbon oxides (CO, CO2). Copper oxides. metal oxides. Reference to other sections 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

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|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 22 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

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|------------------------------|-----------------|
| Aluminium (7429-90-5) | |
| LC50/inhalation/4h/rat | > 0,888 mg/l/4h |

| | |
|-------------------------------------|--|
| Diethyl carbonate (105-58-8) | |
| LD50/oral/rat | > 15000 mg/kg (Source: ECHA) |
| LC50/inhalation/4h/rat | > 1268 mg/m ³ (Exposure time: 7 h Source: ECHA) |

| | |
|--------------------------------------|---|
| dimethyl carbonate (616-38-6) | |
| LD50/oral/rat | > 6000 mg/kg ((small) Rat) ; >13000 mg/kg ((Large) Rat) |
| LD50/dermal/rabbit | > 5 g/kg (Source: NLM_CIP) |
| LC50/inhalation/4h/rat | > 5,36 mg/l/4h |

| | |
|-------------------------------------|---|
| Ethylene carbonate (96-49-1) | |
| LD50/oral/rat | 10 g/kg (Source: NLM_CIP) |
| LD50/dermal/rabbit | > 26420 mg/kg (Source: ECHA_API) |
| LC50/inhalation/4h/rat | > 730 mg/m ³ (Exposure time: 8 h Source: ECHA) |

| | |
|--|-----------------------------|
| ethyl methyl carbonate (623-53-0) | |
| LD50/oral/rat | > 5000 mg/kg (Source: ECHA) |
| LC50/inhalation/4h/rat | > 17,6 mg/l/4h |

| | |
|---------------------------------------|--------------------------------|
| Propylene carbonate (108-32-7) | |
| LD50/oral/rat | 29000 mg/kg (Source: NLM_CIP) |
| LD50/dermal/rabbit | > 3000 mg/kg (Source: EPA_HPV) |

| | |
|--------------------------------|----------------|
| Copper (Cu) (7440-50-8) | |
| LC50/inhalation/4h/rat | > 5,11 mg/l/4h |

| | |
|---------------------------------|---|
| Carbon black (1333-86-4) | |
| LD50/oral/rat | > 8000 mg/kg |
| LD50/dermal/rabbit | 3000 mg/kg |
| LC50/inhalation/4h/rat | > 4,6 mg/m ³ (Exposure time: 4 h Source: ECHA_API) |

| | |
|---------------------------|--------------------------------|
| carbon (7440-44-0) | |
| LD50/oral/rat | > 10000 mg/kg (Source: IUCLID) |

| | |
|----------------------------|------------------------------|
| silicon (7440-21-3) | |
| LD50/oral/rat | 3160 mg/kg (Source: NLM_CIP) |

| | |
|-------------------------|---------------------------|
| iron (7439-89-6) | |
| LD50/oral/rat | 30 g/kg (Source: NLM_CIP) |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 23 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

sodium carboxy methyl cellulose (9004-32-4)

| | |
|------------------------|---|
| LD50/oral/rat | 27000 mg/kg (Source: NLM_CIP) |
| LC50/inhalation/4h/rat | > 5800 mg/m ³ (Exposure time: 4 hours ; Source: NLM_CIP) |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH value: No data available

Propylene carbonate (108-32-7)

| | |
|----------|-----|
| pH value | 8,8 |
|----------|-----|

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH value: No data available

Propylene carbonate (108-32-7)

| | |
|----------|-----|
| pH value | 8,8 |
|----------|-----|

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Carbon black (1333-86-4)

| | |
|------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
|------------|--------------------------------------|

Styrene butadiene rubber (9003-55-8)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Ethylene carbonate (96-49-1)

| | |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--|

Lithium hexafluorophosphate(1-) (21324-40-3)

| | |
|------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
|------------------------|---|

Lithium Nickel Cobalt Aluminum Oxides

| | |
|------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
|------------------------|---|

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 24 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | |
|--|-------------------|
| Kinematic viscosity | No data available |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

| dimethyl carbonate (616-38-6) | |
|-------------------------------|---|
| LC50 - Fish [1] | ≥ 100 mg/l (Exposure time: 96 hours - Species: Brachydanio rerio (zebra-fish) [Flow-through system] Source: ECHA) |

| Ethylene carbonate (96-49-1) | |
|------------------------------|--|
| LC50 - Fish [1] | > 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA) |

| ethyl methyl carbonate (623-53-0) | |
|-----------------------------------|--|
| LC50 - Fish [1] | > 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA) |

| Propylene carbonate (108-32-7) | |
|--------------------------------|---|
| LC50 - Fish [1] | > 1000 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: IUCLID) |
| EC50 - Crustacea [1] | > 500 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | > 500 mg/l (Species: Desmodesmus subspicatus) |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 25 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| Copper (Cu) (7440-50-8) | |
|--------------------------------|--|
| LC50 - Fish [1] | 0,0068 – 0,0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: EPA) |
| LC50 - Fish [2] | < 0,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| EC50 - Crustacea [1] | (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 72h - Algae [1] | ≤ 0,0535 mg/l (Species: Pseudokirchneriella subcapitata [static]) |
| EC50 96h - Algae [1] | ≤ 0,054 mg/l (Species: Pseudokirchneriella subcapitata [static]) |

12.2. Persistence and degradability

| Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | |
|---|--------------------------------------|
| Persistence and degradability | No additional information available. |

12.3. Bioaccumulative potential

| Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | |
|---|--------------------------------------|
| Partition coefficient n-octanol/water | No data available |
| Bioaccumulative potential | No additional information available. |

| Diethyl carbonate (105-58-8) | |
|---------------------------------------|-----------------|
| Partition coefficient n-octanol/water | 1,33 (at 25 °C) |

| dimethyl carbonate (616-38-6) | |
|---------------------------------------|------------------------------|
| Partition coefficient n-octanol/water | 0,354 (20 °C ; pH >6.5-<7.5) |

| Ethylene carbonate (96-49-1) | |
|---------------------------------------|------------------------------------|
| Partition coefficient n-octanol/water | 0,11 (at 20 °C (at pH >5.33-<5.79) |

| ethyl methyl carbonate (623-53-0) | |
|--|-----------------------------|
| Partition coefficient n-octanol/water | 0,972 (at 40 °C (at pH 6.8) |

| Propylene carbonate (108-32-7) | |
|---------------------------------------|-----------------|
| Partition coefficient n-octanol/water | 0,48 (at 25 °C) |

12.4. Mobility in soil

| Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | |
|---|-------------------|
| Mobility in soil | No data available |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 26 / 32 |
| | | Revision nr : 1.0 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Issue date : 16/04/2026 |
| | | Supersedes : |

*****PROPOSAL*****

12.5. Results of PBT and vPvB assessment

| Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | |
|--|-------------------|
| Results of PBT assessment | No data available |

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

Additional information : Do not puncture or incinerate. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions:
MS-N13.00403950BIS - 16 06 05 - other batteries and accumulators (CH: 16 06 05 ds).
MS-N13.00030010 - Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities






SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 14.1. UN number or ID number | | | | |
| 3480 | 3480 | 3480 | 3480 | 3480 |
| 14.2. UN proper shipping name | | | | |
| LITHIUM ION BATTERIES | LITHIUM ION BATTERIES | Lithium ion batteries | LITHIUM ION BATTERIES | LITHIUM ION BATTERIES |
| Transport document description | | | | |
| UN 3480 LITHIUM ION BATTERIES, 9, (E) | UN 3480 LITHIUM ION BATTERIES, 9 | UN 3480 Lithium ion batteries, 9 | UN 3480 LITHIUM ION BATTERIES, 9 | UN 3480 LITHIUM ION BATTERIES, 9 |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 27 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| ADR | IMDG | IATA | ADN | RID |
|--|---|---|--|---|
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Special precautions for user : This article meets UN Manual of Tests and Criteria, Part III, subsection 38.3. Test certificate can be obtained through xyz@bradycorp.com, Nominal energy: 27 Wh.
 Battery pack voltage: 10,80 Volts
 Battery weight: 146 grams
 Equivalent Lithium Content (ELC): 1.98 gram/battery

- Overland transport

Classification code (ADR) : M4
 Special provisions : 188, 230, 310, 348, 376, 377, 387, 636, 677
 Limited quantities (ADR) : 0
 Excepted quantities (ADR) : E0
 Packing instructions (ADR) : P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906
 Transport category (ADR) : 2
 Tunnel restriction code : E
 EAC code : 2Y

- Transport by sea

Special provisions (IMDG) : 188, 230, 310, 348, 376, 377, 384, 387
 Limited quantities (IMDG) : 0
 Excepted quantities (IMDG) : E0
 Packing instructions (IMDG) : P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906
 EmS-No. (Fire) : F-A
 EmS-No. (Spillage) : S-I
 Stowage category (IMDG) : A
 Stowage and handling (IMDG) : SW19
 Properties and observations (IMDG) : Electrical batteries containing lithium ion may react (e.g. flame, heat, emission of toxic, corrosive or flammable gases or vapours) or disassemble due to damage, defects or short circuit.

- Air transport

Transport regulations (IATA) : Under IATA regulations, lithium-ion cells and batteries (UN3480) must be offered for transport at a state of charge not exceeding 30% of their rated capacity.

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 28 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

PCA Excepted quantities (IATA) : E0
 PCA Limited quantities (IATA) : Forbidden
 PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : Forbidden
 PCA max net quantity (IATA) : Forbidden
 CAO packing instructions (IATA) : See 965
 CAO max net quantity (IATA) : See 965
 Special provisions (IATA) : A88, A99, A154, A183, A201, A213, A331, A334, A802
 ERG code (IATA) : 12FZ

- Inland waterway transport

Classification code (ADN) : M4
 Special provisions (ADN) : 188, 230, 310, 348, 376, 377, 387, 636, 677
 Limited quantities (ADN) : 0
 Excepted quantities (ADN) : E0
 Equipment required (ADN) : PP
 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M4
 Special provisions (RID) : 188, 230, 310, 348, _376, 377, 387, 636, 677
 Limited quantities (RID) : 0
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P903, 908, 909, P910, P911, LP903, LP904, LP905, LP906
 Transport category (RID) : 2
 Colis express (express parcels) (RID) : CE2
 Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|--|--|
| Reference code | Applicable on | Entry title or description |
| 27. | Nickel (base metal) | Nickel and its compounds |
| 3(a) | Diethyl carbonate ; dimethyl carbonate ; ethyl methyl carbonate | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 29 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| EU restriction list (REACH Annex XVII) | | |
|--|---------------------|--|
| Reference code | Applicable on | Entry title or description |
| 3(b) | Propylene carbonate | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 40. | Diethyl carbonate | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |
| 65. | silicon | Inorganic ammonium salts |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Aluminium powder (7429-90-5), Nickel powder (7440-02-0).

Explosives Precursors Regulation (EU 2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Detergent Regulation (648/2004/EC): Labelling of contents

15.1.2. National regulations

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 30 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

France

| Occupational diseases | | | |
|------------------------|----------------------------------|-------------|-------|
| Code | Description | | |
| RG 66 | Occupational rhinitis and asthma | | |
| Installations classées | | | |
| No ICPE | Désignation de la rubrique | Code Régime | Rayon |
| na | Not Applicable | na | na |

Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)).
- Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

- SZW-lijst van kankerverwekkende stoffen : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with it.
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

15.2. Chemical safety assessment

Not applicable.

| |
|---|
| For the following substances of this mixture a chemical safety assessment has been carried out |
| Aluminium |

SECTION 16: Other information

Abbreviations and acronyms:

| |
|--------------------------------------|
| ABM = Algemene beoordelingsmethodiek |
|--------------------------------------|

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 31 / 32 |
| | | Revision nr : 1.0 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Issue date : 16/04/2026 |
| | | Supersedes : |

*****PROPOSAL*****

| | |
|--|---|
| | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | BTT = Breakthrough time (maximum wearing time) |
| | DMEL = Derived Minimal Effect level |
| | DNEL = Derived No Effect Level |
| | EC50 = Median Effective Concentration |
| | EL50 = Median effective level |
| | ErC50 = EC50 in terms of reduction of growth rate |
| | ErL50 = EL50 in terms of reduction of growth rate |
| | EWC = European waste catalogue |
| | LC50 = Median lethal concentration |
| | LD50 = Median lethal dose |
| | LL50 = Median lethal level |
| | NA = Not applicable |
| | NOEC = No observed effect concentration |
| | NOEL: no-observed-effect level |
| | NOELR = No observed effect loading rate |
| | NOAEC = No observed adverse effect concentration |
| | NOAEL = No observed adverse effect level |
| | N.O.S. = Not Otherwise Specified |
| | OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs) |
| | PNEC = Predicted No Effect Concentration |
| | Quantitative structure-activity relationship (QSAR) |
| | STOT = Specific Target Organ Toxicity |
| | TWA = time weighted average |
| | VOC = Volatile organic compounds |
| | WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) |

Sources of key data used to compile the : MSDS supplier.
datasheet

Training advice : Training staff on good practice.

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Carc. 1A | Carcinogenicity (inhalation) Category 1A |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |

| | | |
|--|---|-------------------------|
| | SAFETY DATA SHEET | Page : 32 / 32 |
| | | Revision nr : 1.0 |
| | | Issue date : 16/04/2026 |
| | Y5087828 Rechargeable Lithium Ion Battery Pack for use in Brady M511 Printer | Supersedes : |

*****PROPOSAL*****

| | |
|--------------|--|
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 1 | Specific target organ toxicity – Repeated exposure, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H350i | May cause cancer by inhalation. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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