

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), as retained and amended in UK law Date of issue: 8/15/2022 Revision date: 11/9/2022 Supersedes: 8/15/2022 Version: 1.2

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

1.1. Product identifier

Product form Product name Product code Other means of identification	 Article NICKEL METAL HYDRIDE BATTERY (NiMH) YU-Lite Cylindrical Nickel Metal Hydride
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against
 1.2.1. Relevant identified uses Use of the substance/mixture 1.2.2. Uses advised against Restrictions on use 	: Emergency Lighting, Wireless Security, Fire, and other industrial applications : Anything other than the above
1.3. Details of the supplier of the safety dat	
Only representative: Europark Fichtenhain B 17 47807 Krefeld Germany Telephone: +49 (0) 2151 82095 00 E-mail: info@gs-yuasa.de Supplier: GS Yuasa Battery Europe Limited Unit 22 Rassau Industrial Estate	
Ebbw Vale, Gwent Telephone: +44 (0) 1495 350121 E-mail: tech.info@gs-yuasa.uk	
1.4. Emergency telephone number	
Emergency number	: United Kingdom GS Yuasa Battery Sales UK Ltd. Telephone: (+44) 01793-833-560 E-mail: matthew.elwick@gs-yuasa.uk Language: English language only

Monday - Friday 9:00am - 5:00pm (09:00 - 17:00)

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

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

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification

: This product meets the definition of an "article" as defined in Regulation (EC) No. 1907/2006 (REACH), and is therefore out of scope of CLP.

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
nickel hydroxide	CAS-No.: 11113-74-9 EC No.: 234-348-1 EC index No.: 028-008-00-X	20 – 50	Carc. 1A, H350i Repr. 1B, H360D Muta. 2, H341 STOT RE 1, H372 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Resp. Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nickel (Ni) substance with a Community workplace exposure limit	CAS-No.: 7440-02-0 EC No.: 231-111-4 EC index No.: 028-002-01-4	< 6	Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Cobalt oxide	CAS-No.: 1307-96-6 EC No.: 215-154-6 EC index No.: 027-002-00-4	1 – 3	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Resp. Sens. 1B, H334 Skin Sens. 1, H317 Carc. 1B, H350i Repr. 1B, H360Fd Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Nickel powder, [particle diameter < 1 mm] substance with a Community workplace exposure limit	CAS-No.: 7440-02-0 EC No.: 231-111-4 EC index No.: 028-002-01-4	< 1	Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medi advice (show the label where possible).	cal
First-aid measures after inhalation	: If a battery ruptures, move to fresh air in case of accidental inhalation of mist. Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain m attention.	
First-aid measures after skin contact	: Remove contaminated clothing immediately. Immediately call a POISON CENTRE or doctor/physician. Wash immediately with lots of water (15 minutes)/shower.	
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First-aid measures after eye contact First-aid measures after ingestion	 Rinse immediately with plenty of water (for at least 15 minutes). Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Rinse mouth. Do NOT induce vomiting. Give 100 - 200 ml of water to drink. Immediately call a POISON CENTRE or doctor/physician.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact	 Harmful if inhaled. If a battery ruptures, may be harmful or fatal if inhaled in a confined area. Causes severe burns. Direct contact with internal components of a battery can be severely irritating to the skin and may result in redness, swelling, burns and severe skin damage.
Symptoms/effects after eye contact	: Causes serious eye damage. If a battery ruptures, direct contact with the liquid or exposure to vapours or mists may cause tearing, redness, swelling, corneal damage and irreversible eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.

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

Treat symptomatically. Contact ophthalmologist immediately.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. If a battery ruptures, use dry chemical, soda ash, lime, sand or carbon dioxide.	
Unsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Battery may rupture due to pressure buildup when exposed to excessive heat and may be result in the release of corrosive materials.	
Hazardous decomposition products in case of fire	: Nickel. nickel oxide. Cadmium oxide. cobalt oxide.	
5.3. Advice for firefighters		
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling	
Protection during firefighting	exposed containers. Avoid fire-fighting water entering the environment.Do not enter fire area without proper protective equipment, including respiratory protection.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Use personal protective equipment as required.	
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel. Do not get in eyes, on skin, or on clothing.	
6.1.2. For emergency responders		
Protective equipment	 Wear suitable protective clothing and eye or face protection. Where excessive dust may result, wear approved mask. Do not get in eyes, on skin, or on clothing. Do not breathe dust. 	
Emergency procedures	: Ventilate area. Do not get in eyes, on skin, or on clothing.	
6.2. Environmental precautions		

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters. Do not allow contact with water.

6.3. Methods and material for containment and cleaning up	
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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Methods for cleaning up	: Small spills: collect all released material in a plastic lined metal container. Take up liquid spill into absorbent material or Neutralize with sodium bicarbonate. Large spills: Take up liquid spill into absorbent material, e.g.: sand/earth. Dispose in a safe manner in accordance	
	with local/national regulations.	

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Prolonged short circuits will cause high cell temperatures which can cause skin burns. Accidental short circuit for a few seconds will not seriously affect the battery. However, this battery is capable of delivering very high short circuit currents.	
Hygiene measures	 Ensure that when handling and transporting new or spent cells/packs adequate provision is made to prevent short circuit of live conductors. Take measures to avoid storage of product next to or near flammable materials or propellent substances. Do not eat, drink or smoke when using this product. Handle in accordance with good 	
	industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Take precautionary measures against static discharge. Provide local exhaust or general room ventilation.	
Storage conditions	: Store in a dry, cool and well-ventilated place. Store away from direct sunlight or other heat sources.	
Incompatible materials	: None known.	
7.3. Specific end use(s)		

Emergency Lighting, Wireless Security, Fire, and other industrial applications.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Nickel powder, [particle diameter < 1 mm] (7440-02-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Nickel metal	
IOELV TWA (mg/m³)	0.005 mg/m ³ (respirable fraction) 0.01 mg/m ³ (inhalable fraction)	
Notes	(Year of adoption 2011)	
Regulatory reference	SCOEL Recommendations	
EU - Biological Limit Value (BLV)		
Local name	Nickel and nickel compounds	
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs	
Ireland - Occupational Exposure Limits		
Local name	Nickel	
OEL (8 hours ref) (mg/m³)	0.5 mg/m³	

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Nickel powder, [particle diameter < 1 mm] (74	40-02-0)	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Nickel	
BLV	$3\ \mu\text{g/l}$ Parameter: Ni - Medium: urine - Sampling time: After several consecutive working shifts	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
United Kingdom - Occupational Exposure Limits		
Local name	Nickel	
WEL TWA (mg/m³)	 0.1 mg/m³ and its inorganic compounds (except nickel tetracarbonyl): water-soluble nickel compounds (as Ni) 0.5 mg/m³ and its inorganic compounds (except nickel tetracarbonyl): nickel and water insoluble nickel compounds (as Ni) 	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), Carc (Capable of causing cancer and/or heritable genetic damage (nickel oxides and sulphides)), Sen (Capable of causing occupational asthma (nickel sulphate))	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Lithium hydroxide (1310-66-3)		
Ireland - Occupational Exposure Limits		
Local name	Lithium hydroxide	
OEL (15 min ref) (mg/m3)	1 mg/m ³	
United Kingdom - Occupational Exposure Limits		
Local name	Lithium hydroxide	
WEL STEL (mg/m ³)	1 mg/m ³	
Nickel (Ni) (7440-02-0)	•	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Nickel metal	
IOELV TWA (mg/m³)	0.005 mg/m³ (respirable fraction) 0.01 mg/m³ (inhalable fraction)	
Notes	(Year of adoption 2011)	
Regulatory reference	SCOEL Recommendations	
EU - Biological Limit Value (BLV)		
Local name	Nickel and nickel compounds	
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs	
Ireland - Occupational Exposure Limits		
Local name	Nickel	

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Nickel (Ni) (7440-02-0)		
OEL (8 hours ref) (mg/m³)	0.5 mg/m ³	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Nickel	
BLV	$3\ \mu\text{g/l}$ Parameter: Ni - Medium: urine - Sampling time: After several consecutive working shifts	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
United Kingdom - Occupational Exposure Limits		
Local name	Nickel	
WEL TWA (mg/m³)	 0.1 mg/m³ and its inorganic compounds (except nickel tetracarbonyl): water-soluble nickel compounds (as Ni) 0.5 mg/m³ and its inorganic compounds (except nickel tetracarbonyl): nickel and water insoluble nickel compounds (as Ni) 	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), Carc (Capable of causing cancer and/or heritable genetic damage (nickel oxides and sulphides)), Sen (Capable of causing occupational asthma (nickel sulphate))	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation to minimise dust concentrations.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Wear goggles or safety glasses with side shields if contact with the eyes is possible

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8.2.2.2. Skin protection

Skin and body protection:

Impervious clothing. EN 13034. Large quantities: EN 14605. Corrosionproof suit

Hand protection:

Not required for normal conditions of use. Use neoprene or natural rubber gloves if handling an open or leaking battery.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140 with Type A/P2 filter or better

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not required for normal conditions of use.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Do not allow to enter drains or water courses.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Colour	: Solid : Cylindrical. : No data available
Odour	: Odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Not applicable.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4. Conditions to avoid

Overcharging. Remove all sources of ignition. If battery ruptures, avoid contact with organic materials and alkaline materials. mechanical impacts.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Nickel. nickel oxide. Cadmium oxide. cobalt oxide.

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified. Not classified Not classified.
Cobalt oxide (1307-96-6)	
LD50 oral, rat	202 mg/kg bodyweight (OECD 401 method)
LC50 inhalation, rat (mg/l)	0.06 mg/l - 4 Hours, dust (OECD 436 method)
Nickel powder, [particle diameter < 1 mm] (74	40-02-0)
LD50 oral, rat	> 9000 mg/kg bodyweight
Nickel (Ni) (7440-02-0)	
LD50 oral, rat	> 9000 mg/kg bodyweight
Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:	Not classified. Not classified Not classified. Not classified. Not classified. Not classified.
Nickel powder, [particle diameter < 1 mm] (74	40-02-0)
IARC group	2B - Possibly carcinogenic to humans
Nickel (Ni) (7440-02-0)	
IARC group	2B - Possibly carcinogenic to humans
STOT-single exposure :	Not classified. Not classified Not classified.
nickel hydroxide (11113-74-9)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Nickel powder, [particle diameter < 1 mm] (7440-02-0)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Nickel (Ni) (7440-02-0)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

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Aspiration hazard

: Not classified

(acute)	SECTION 12: Ecological information	
(actor) Haradous to the aquatic environment, long-term Not classified. (chronic) Cobait oxide (1307-96-6) 1.512 mgl - 96 Hours (Oncorhynchus mykis), (Read-across, Cobalt dichloride hexatiy/tate) EC50 Daphnia 0.61 mgl - 48 Hours (Dendraster excenticus), (Read-across) EC50 - Crustacea [2] 2.32 mgl - 48 Hours (Dendraster excenticus), (Read-across) EC50 - Other aquatic organisms [1] 25 µgl - 7 days (Champia parvula), (Read-across, Cobalt dichloride hexatiy/drate), (PECD 221 method) EC50 - Algae [1] 24.1 µgl - 7 days (Champia parvula), (Read-across, Cobalt dichloride hexatiy/drate), (PECD 221 method) EC50 algae 197 µgl - 72 Hours (Pasudokintheriella subcapitata), (Read-across, Cobalt dichloride hexatiy/drate) EC10, fish, Chronic 31.802 µgl (28 days, Cyprinodon variegatus, Biomass (Read-across, Cobalt dichloride hexatiy/drate) EC10, fish, Chronic 7.55 µgl (28 Hours, Hyalella azteca, growth (Read-across, Cobalt dichloride hexatiy/drate) EC10, aquatic invertebrates, Chronic 266 4 µgl (113 days, Neanthes arenaceodentata, juvenile emergence (Read-across, Cobalt dichloride hexatiy/drate) EC10, aigae 68 9 µgl (72 Hours, Pasudokinchneriela subcapitata), Yeld (Read-across, Cobalt dichloride hexatiy/drate) EC10, aigae 1.23 µgl (7 days, Champia parvula, cystocarp development (Read-across, Cobalt dichloride hexatiy/drate)) EC10, aigae	12.1. Toxicity	
LC50 fish 1.512 mgl - 96 Hours (Oncorthynchus mykiss), (Read-across, Cobalt dichloride hexahydrate) EC50 Daphnia 0.61 mgl - 48 Hours (Ceriodaphnia dubia), (Read-across) EC50 - Crustacea [2] 2.32 mgl - 48 Hours (Dendraster excentricus), (Read-across) EC50 - Other aquatic organisms [1] 52 µgl - 7 days (Lemma minor, reproduction), (Read-across, Cobalt dichloride hexahydrate), (OECD 221 method) EC50 algae 197 µgl - 72 Hours (Peeudokircheriella subcapitata), (Read-across, Cobalt dichloride hexahydrate) EC10, fish, Chronic 351.4 µgl (28 days, Cyprinodon variegatus, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 7.55 µgl (28 Hours, Lypale) EC10, aquatic invertebrates, Chronic 205.4 µgl (13 days, Neanthes arenaceodentata, juvenile emergence (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 205.4 µgl (13 days, Neanthes arenaceodentata, juvenile emergence (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 205.4 µgl (13 days, Neanthes arenaceodentata, juvenile emergence (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 69.9 µgl (27 Hours, Pseudokircheriella subcapitata, Yield (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 1.23 µgl (7 days, Lemma minor, reproduction, (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 1.23 µgl (7 days, Lemma minor, reproduction, (Read-a	(acute) Hazardous to the aquatic environment, long-term :	
Inexalitydiae) Inexalitydiae) EC50 Daphnia 0.61 mg/l - 48 Hours (Ceriodaphnia dubia), (Read-across) EC50 - Crustacea [2] 2.32 mg/l - 48 Hours (Dendraster excentricus), (Read-across) EC50 - Other aquatic organisms [1] 52 µg/l - 7 days (Lemam minor, reproduction), (Read-across, Cobalt dichloride hexahydrate), (OECD 221 method) EC50 algae 197 µg/l - 72 Hours (Pseudokirchneriella subcapitata), (Read-across, Cobalt dichloride hexahydrate) EC10, fish, Chronic 351.4 µg/l (24 days, Pimephales promelas, Biomass (Read-across, Cobalt dichloride hexahydrate) EC10, fish, Chronic 31.802 µg/l (28 days, Cyriniodon variegatus, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 75 µg/l (28 Hours, Hyalella azteca, growth (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 205.4 µg/l (13 days, Neanthes arenaceodentata, juvenie emergence (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 206.4 µg/l (113 days, Charmia parvula, cystocarp development (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 129 µg/l (22 Hours, Hyalella azteca, growth (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic plants 104 µg/l (7 days, Lemma minor, reproduction, (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 15.3 mg/l - 96 Hours (Oncorth	Cobalt oxide (1307-96-6)	
EC50 - Crustacea [2] 2.32 mgl - 48 Hours (Dendraster excentricus), (Read-across) EC50 - Crustacea [2] 2.32 mgl - 48 Hours (Dendraster excentricus), (Read-across) EC50 - Crustacea [2] 2.41 µgL - 7 days (Lemna minor, reproduction), (Read-across, Cobalt dichloride hexahydrate) EC50 algae 197 µgL - 72 Hours (Pseudokirchneriella subcapitala), (Read-across, Cobalt dichloride hexahydrate) EC50 algae 197 µgL - 72 Hours (Pseudokirchneriella subcapitala), (Read-across, Cobalt dichloride hexahydrate) EC10, fish, Chronic 351.4 µgl (28 days, Pimephales promelas, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, fish, Chronic 31.802 µgl (28 days, Cyprinodon variegatus, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 7.55 µgl (28 Hours, Hyalella azteca, growth (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 20.64 µgl (113 days, Neanthes arenaceodentata, juvenile emergence (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 66.9 µgl (72 Hours, Pseudokirchneriella subcapitata, Yield (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 12.3 µgl (7 days, Champia parvula, cystocarp development (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 12.3 µgl (7 days, Lemna minor, reproduction, (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 13.3 µgl - 96 Hours (Oncorhynchus mykiss)	LC50 fish	
EC50 - Other aquatic organisms [1] 52 µg/l - 7 days (Lemna minor, reproduction), (Read-across, Cobalt dichloride hexahydrate), (OECD 221 method) EC50 - Other aquatic organisms [1] 24.1 µg/l - 7 days (Champia parvula), (Read-across, Cobalt dichloride hexahydrate) EC50 algae 197 µg/l - 72 Hours (Pseudokirchneriella subcapitata), (Read-across, Cobalt dichloride hexahydrate) EC10, fish, Chronic 351.4 µg/l (34 days, Pimephales promelas, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, fish, Chronic 351.4 µg/l (28 days, Cyprinodon variegatus, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 7.55 µg/l (28 days, Cyprinodon variegatus, Biomass (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 7.55 µg/l (28 days, Neanthes arenaceodentata, juvenile emergence (Read-across, Cobalt dichloride hexahydrate)) EC10, aquatic invertebrates, Chronic 206.4 µg/l (72 Hours, Pseudokirchneriella subcapitata, Yield (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 66.9 µg/l (72 Hours, Pseudokirchneriella subcapitata, Yield (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 10.4 µg/l (71 days, Champia parvula, cystocarp development (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 10.4 µg/l (71 days, Lemna minor, reproduction, (Read-across, Cobalt dichloride hexahydrate)) EC10, algae 10.4 µg/l (72 days, Lemna minor, reproduction, (Read-across, Cobalt dichlor	EC50 Daphnia	0.61 mg/l - 48 Hours (Ceriodaphnia dubia), (Read-across)
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hexahydrate), (OECD 221 method)) Nickel powder, [particle diameter < 1 mm] (7440-02-0)	EC10, algae	
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Nickel (Ni) (7440-02-0)	Nickel powder, [particle diameter < 1 mm] (7440-02-0)	
	Persistence and degradability	Not relevant for inorganic substances.
Persistence and degradability Not relevant for inorganic substances.	Nickel (Ni) (7440-02-0)	
	Persistence and degradability	Not relevant for inorganic substances.

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12.3. Bioaccumulative potential		
Cobalt oxide (1307-96-6)		
BCF - Fish [1]	> 100 - 5000 (Read-across)	
Nickel powder, [particle diameter < 1 mm] (744	40-02-0)	
BCF - Fish [1]	45	
Nickel (Ni) (7440-02-0)		
BCF - Fish [1]	45	
12.4. Mobility in soil		
Cobalt oxide (1307-96-6)		
Ecology - soil	Slightly soluble in: Water.	
12.5. Results of PBT and vPvB assessment		
NICKEL METAL HYDRIDE BATTERY (NIMH)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Ensure that when handling and transporting new or spent cells/packs for disposal, adequat provision is made to prevent short circuit of live conductors. Take measures to avoid storage of product next to or near flammable materials or propellent substances.

SECTION 14:	Transport information	
In accordance with ADR / IMDG / IATA IMDG: NOT SUBJECT (Nickel-metal hydride button cells or nickel-metal hydride cells or batteries packed with or contained in equipment are not subject to the provisions of IMDG)		
14.1 UN numbe	er	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA)		: Not applicable : UN 3496 : Not applicable
14.2. UN prope	r shipping name	
Proper Shipping N Proper Shipping N Proper Shipping N Transport docume	lame (IMDG)	 Not applicable BATTERIES, NICKEL-METAL HYDRIDE Not applicable UN 3496 BATTERIES, NICKEL-METAL HYDRIDE, 9
14.3. Transpor	t hazard class(es)	
ADR Transport hazard	class(es) (ADR)	: Not applicable

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IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group Packing group (IMDG) Packing group (IATA)	Not applicableNot applicableNot applicable
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	 No No No supplementary information available
14.6. Special precautions for user	
Overland transport Not applicable	
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG) Properties and observations (IMDG)	 117, 963 0 E0 SP963 IBC08 F-A S-I A SW1 Nickel-metal hydride button cells or nickel-metal hydride cells or batteries packed with or contained in equipment are not subject to the provisions of this Code.
Air transport Not applicable	
14.7. Transport in bulk according to Anno	ex II of Marpol and the IBC Code

Not applicable

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)

Not applicable.

REACH Annex XIV (Authorisation List)

Not applicable.

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

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PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
14	Transport information	Modified	

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CAS-No.	Chemical Abstract Service number	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC No.	European Community number	
EC50	Median effective concentration	
ED	Endocrine disrupting properties	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	

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Abbreviations and acronyms:		
IOELV	Indicative Occupational Exposure Limit Value	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
WGK	Water Hazard Class	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Where 'Regulation (EC) No. 1272/2008' appears in the safety data sheet, this is a reference to Regulation (EC) No. 1272/2008, as retained and amended in UK law.

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
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Carc. 2	Carcinogenicity, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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Full text of H- and EUH-statements:		
H341	Suspected of causing genetic defects.	
H350i	May cause cancer by inhalation.	
H351	Suspected of causing cancer.	
H360D	May damage the unborn child.	
H360Fd	May damage fertility. Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Resp. Sens. 1B	Respiratory sensitisation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	

Safety Data Sheet (SDS), EU

BATTERY WARNING: KEEP OUT OF REACH OF CHILDREN

- Store spare batteries securely
- Dispose of used batteries immediately and safely; and
- If you think batteries might have been swallowed or place inside any part of the body, seek immediate medical attention

• All batteries are supplied with only a residual charge and should be charged at the continuous charge rate before use - they are not precharged for use

- Do not mix different types of battery
- Always install the batteries correctly as per instruction
- Ensure that the contact points are clean and conductive

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.