

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: July 2, 2021

Version No.: 1.0

Revision: July 2, 2021

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

• 1.1 Product identifier

- **Trade name:** ET-D0361, ET-D0723, ET-D1081, ET-D1806, ET-D1806-1, ET1802A, ET-D1809, ET-D1810
- **Registration number:** No available data.
- **UFI number:** No available data
- **Other means of identification:** No available data

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

- **Application of the substance/ mixture:** Transport.
- **Uses advised against:** No data available.
- **Reason why uses advised against:** No data available.

• 1.3 Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:**

NINGBO EAST ENVIRONMENTAL PROTECTION MACHINERY CO., LTD.

NO.307, EAST BUZHENG RD, WANGCHUN INDUSTRIAL ZONE, NINGBO ZHEJIANG 315171, P.R.CHINA

Tel: + 086 15557868952

Email: east_mark@ningboeast.com

- **Only Representative/other EU contact point:** No information available.

- **Further information obtainable from:** NINGBO EAST ENVIRONMENTAL PROTECTION MACHINERY CO., LTD.

• 1.4 Emergency telephone number

Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentra le (Poisons Information Centre)	Stubenring 6 1010 Wien	+43 1 406 43 43	
Belgium	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria	Национален токсикологичен информационен център (National Toxicological Information Centre) Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409	
Croatia	Centar za kontrolu otrovanja Institut za medicinska	Ksaverska Cesta 2 p.p. 291	+385 1 234 8342	

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	<i>istraživanja i medicinu rada</i>	<i>10000 Zagreb</i>		
<i>Cyprus</i>	<i>Κέντρο Δηλητηριάσεων</i>		<i>1401</i>	<i>Operating hours 24 hours / 24 hours, 7 days a week</i>
<i>Czech Republic</i>	<i>ToxikologickéinformačnístřediskoKlini kapracovnílékařstvíVFN a I. LF UK</i>	<i>Na Bojišti 1 120 00 Praha 2</i>	<i>+420 224 919 293 +420 224 915 402</i>	
<i>Denmark</i>	<i>Gifflinjen Bispebjerg Hospital</i>	<i>Bispebjerg Bakke 23 2400 København NV</i>	<i>+45 82 12 12 12</i>	
<i>Estonia</i>	<i>Mürgistusteabekeskus</i>	<i>Gonsiori 29 15027 Tallinn</i>	<i>16662 +372 626 93 90</i>	
<i>Finland</i>	<i>Myrkytystietokeskus</i>	<i>Stenbäckinkatu 9 PO BOX 100 29 Helsinki</i>	<i>+358 9 471 977 +358 9 4711</i>	
<i>France</i>	<i>Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal</i>	<i>200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10</i>	<i>+33 1 40 05 48 48</i>	
<i>France</i>	<i>Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite</i>	<i>270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09</i>	<i>+33 4 91 75 25 25</i>	
<i>Germany</i>	<i>Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik rechts der Isar der Technischen Universität München</i>	<i>Ismaninger Straße 22 81675 München</i>	<i>+49 (0) 89 19240</i>	
<i>Germany</i>	<i>Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG</i>	<i>Hindenburgdamm 30 12203 Berlin</i>	<i>+49 (0) 30 19240</i>	
<i>Greece</i>	<i>Poisons Information Centre Children's Hospital P&A Kyriakou</i>	<i>11762 Athens</i>	<i>+30 2 10 779 3777</i>	
<i>Hungary</i>	<i>Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat</i>	<i>Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest</i>	<i>+36 80 20 11 99</i>	
<i>Iceland</i>	<i>Eitrunarmiðstöð Landspítali</i>	<i>Fossvogi 108 Reykjavik</i>	<i>+354 543 22 22</i>	
<i>Ireland</i>	<i>National Poisons Information Centre Beaumont Hospital</i>	<i>PO Box 1297 Beaumont Road 9 Dublin</i>	<i>+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)</i>	
<i>Italy</i>	<i>Centro Antiveleeni Dipartimento di Tossicologia Clinica, Università Cattolica del Sacro Cuore</i>	<i>Largo Agostino Gemelli 8 168 Roma</i>	<i>+39 06 305 4343</i>	
<i>Latvia</i>	<i>Valsts Toksikoloģijas centrs,</i>	<i>Hipokrāta 2</i>	<i>+371 67 04 24 73</i>	

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	<i>Saindēšanās un zāļu informācijas centrs</i>	<i>1038 Rīga</i>		
<i>Lithuania</i>	<i>Apsinuodijimų informacijos biuras</i>	<i>Birutės g. 56 8110 Vilnius</i>	<i>+370 5 236 20 52 +370 687 53378</i>	
<i>Luxembourg</i>	<i>Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid</i>	<i>Rue Bruyn I 1120 Bruxelles/Brussel</i>	<i>+352 8002 5500</i>	
<i>Malta</i>	<i>Medicines & Poisons Info Office</i>	<i>Mater Dei Hospital MSD Msida</i>	<i>+356 2545 6504</i>	
<i>Netherlands</i>	<i>Nationaal Vergiftigingen Informatie Centrum Universitair Medisch Centrum Utrecht, Het Nationaal Vergiftigingen Informatie Centrum (NVIC) informeert (dieren-) artsen, apothekers en andere professionele hulpverleners over de mogelijke gezondheidseffecten en behandelingsmogelijkheden bij vergiftigingen. Het NVIC is hiervoor dag en nacht bereikbaar, zowel telefonisch als via internet</i>	<i>Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht</i>	<i>+31 30 274 88 88</i>	<i>Only for the purpose of informing medical personnel in cases of acute intoxications</i>
<i>Norway</i>	<i>Giftinformasjonen Helsedirektoratet</i>	<i>P.O. Box 7000 St. Olavs Plass 130 Oslo</i>	<i>+47 22 591300</i>	
<i>Poland</i>	<i>National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)</i>	<i>ul. Teresy 8 P.O. BOX 199 90950 Łódź</i>	<i>+48 42 63 14 724</i>	
<i>Portugal</i>	<i>Centro de Informação Antivenenos Instituto Nacional de Emergência Médica</i>	<i>Rua Almirante Barroso, 36 1000-013 Lisboa</i>	<i>+351 808 250 143</i>	
<i>Romania</i>	<i>Department of Clinical Toxicology Spitalul de Urgenta Floreasca</i>	<i>Calea Floreasca Bucuresti</i>	<i>+40 21 230 8000</i>	
<i>Serbia</i>	<i>Nacionalni centar za kontrolu trovanja - VMA</i>	<i>Crnotravska 17 11000 Beograd</i>	<i>+381 11 360 84 40 (24h) +381 11 3672 187</i>	
<i>Slovakia</i>	<i>Národné toxikologické informačné centrum Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinika pracovného lekárstva a toxikológie</i>	<i>Limbová 5 833 05 Bratislava</i>	<i>+421 2 54 77 41 66</i>	
<i>Slovenia</i>	<i>Center za kliničnotoksikologijo in</i>	<i>Zaloška cesta 7</i>	<i>+386 41 650 500</i>	

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	<i>farmakologijoInternaklinika, UKCL</i>	<i>1525 Ljubljana</i>		
<i>Spain</i>	<i>Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Sevilla</i>	<i>Carretera de San Jerónimo Km 0,4 41080 Sevilla</i>	<i>+34 91 562 04 20</i>	<i>(Toxicological emergencies only). Information in Spanish (24/7)</i>
<i>Spain</i>	<i>Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid</i>	<i>C/José Echegaray nº4 28232 Las Rozas de Madrid</i>	<i>+34 91 562 04 20</i>	<i>(Toxicological emergencies only). Information in Spanish (24/7)</i>
<i>Sweden</i>	<i>Giftinformationscentralen</i>	<i>Box 60 500 171 76 Stockholm</i>	<i>112 – begär Giftinformation +46 10 456 6700 (Från utlandet)</i>	
<i>Switzerland</i>	<i>Tox Info Suisse</i>	<i>Freiestrasse 16 8032 Zürich</i>	<i>145</i>	<i>(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66</i>

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• 2.1.1 Classification according to regulation (EC) 1272/2008:

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
<i>Acute Tox. 4, H302 (oral)</i>	<i>Calculation method</i>
<i>Acute Tox. 2, H330 (inhal.)</i>	<i>Calculation method</i>
<i>Skin Corr. 1A, H314</i>	<i>Calculation method</i>
<i>Skin Sens. 1, H317</i>	<i>Calculation method</i>
<i>Eye Dam. 1, H318</i>	<i>Calculation method</i>
<i>Carc. 1B, H350</i>	<i>Calculation method</i>
<i>STOT RE 1, H372</i>	<i>Calculation method</i>
<i>Aquatic Acute 1, H400</i>	<i>Calculation method</i>
<i>Aquatic Chronic 1, H410</i>	<i>Calculation method</i>

• 2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

• 2.2 Label elements

 • **Labeling according to Regulation (EC) No 1272/2008:** The product is labelled according to CLP Regulation.

• Hazard pictograms:



GHS05 GHS06 GHS08 GHS09

 • **Signal word:** *Danger*

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Hazard-determining components of labelling: Cobalt lithium manganese nickel oxide; Lithium hexafluorophosphate(1-).

Hazard statements:

- H302 Harmful if swallowed
 H330 Fatal if inhaled
 H314 Causes severe skin burns and eye damage
 H317 May cause an allergic skin reaction
 H350 May cause cancer
 H372 Causes damage organs through prolonged or repeated exposure by inhalation or ingestion.
 H410 Very toxic to aquatic life with long lasting effects

Precautionary statement:

- P201 Obtain special instructions before use.
 P260 Do not breathe dust.
 P263 Avoid contact during pregnancy and while nursing.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P304+P340+P310 **IF INHALED:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.
 P303+P361+P353+P310 **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER or doctor/physician.
 P305+P351+P338+P310 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 P308 + P313 **IF exposed or concerned:** Get medical advice/attention.
 P391 Collect spillage.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental label elements: Not applicable

2.3 Other hazards

 None ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.

 None ingredients ($\geq 0.1\%$) identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixtures
Description of the mixture: ET-D0361, ET-D0723, ET-D1081, ET-D1806, ET-D1806-1, ET1802A, ET-D1809, ET-D1810.

Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Cobalt lithium manganese nickel oxide	182442-95-1	028-058-00-2	442-750-5	41	Skin Sens. 1, H317 Acute Tox. 2, H330 Carc. 1A, H350 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE(inhal.)= 0.07mg/l (dusts) M=1 M(Chronic)=1

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Graphite	7782-42-5	-	231-955-3	22	None	-
Lithium hexafluorophosphate(1-)	21324-40-3	-	244-334-7	16	Acute Tox. 3, H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 1, H372	ATE(oral)= 200mg/kg
Copper	7440-50-8	-	231-159-6	11	None	-
Aluminum	7429-90-5	-	231-072-3	5	None	-
Polyethylene	9002-88-4	-	-	1	None	-
Polyvinylidene fluoride	24937-79-9	-	-	1	None	-
Sodium carboxymethyl cellulose	9004-32-4	-	-	1	None	-
Butadiene-styrene rubber	9003-55-8	-	-	1	None	-
Carbon black	1333-86-4	-	215-609-9	1	None	-

Additional information:

Full text of H- and EUH-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures
General advice: IF exposed or concerned: Get medical advice/attention.

After inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/if you feel unwell.

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER or doctor/physician.

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

After swallowing: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed: Harmful if swallowed; Fatal if inhaled; Causes severe skin burns and eye damage; May cause cancer; Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed: Treatment according to symptoms, no known specific medicine.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

Unsuitable extinguishing media: No special unsuitable extinguishing media.

5.2 Special hazards arising from the substance or mixture: May produce corrosive dust/ mist.

5.3 Advice for firefighters
Protective equipment: Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

- **6.1.1 For non-emergency personnel**

Protective equipment: Protective gloves/ protective clothing/ eye protection/ face protection and respiration protection.

Emergency procedures: Evacuate quickly; Ensure good ventilation; Wear protective gloves/ protective clothing/ eye protection/ face protection and respiration protection; Avoid contact with skin and eyes.

- **6.1.2 For emergency responders**

Personal protective equipment: Protective gloves/ protective clothing/ eye protection/ face protection and respiration protection

- **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

- **6.3 Methods and material for containment and cleaning up:**

Neutralize the liquid with alkali, then absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Do not use water flush; Ensure good ventilation; Dispose contaminated material as waste according to section 13.

- **6.4 Reference to other sections:**

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**

Obtain special instructions before use; Do not handle until all safety precautions have been read and understood; Ensure good ventilation/ exhaustion at the workplace; Absorb spillage to prevent material damage; Do not breathe dust; Wear protective gloves/protective clothing/eye protection/face protection; Use respiratory protective device against the effects of dust; Prevent contact with eyes and skin; Avoid release to the environment.

- **Information about fire and explosion protection:** Keep away from heat source.

- **7.2 Conditions for safe storage, including any non-compatibility**

- **Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.

- **Information about storage in one common storage facility:** Store in the original container.

- **Further information about storage conditions:** Store locked up.

- **Storage class:** 6.1 B.

- **7.3 Specific end use(s):** See section 1.2.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
182442-95-1	Cobalt lithium manganese nickel oxide	
Denmark	0.01mg/m ³	0.02mg/m ³ 15 minutes average value

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7782-42-5 Graphite		
Belgium	2 mg/m ³	-
Denmark	2.5 mg/m ³ Respirable aerosol	5 mg/m ³ Respirable aerosol
Finland	2 mg/m ³	-
France	2 mg/m ³ Respirable aerosol	-
Germany (DFG)	4 mg/m ³ Inhalable aerosol; 1.5 mg/m ³ Respirable aerosol	-
Ireland	10 mg/m ³ Inhalable fraction 4 mg/m ³ Respirable fraction	-
Latvia	2 mg/m ³	-
Spain	2 mg/m ³ Inhalable aerosol;	-
Sweden	5 mg/m ³ Respirable aerosol	-
United Kingdom	10 mg/m ³ Inhalable fraction 4 mg/m ³ Respirable fraction	-

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
7782-42-5 Graphite			
Local effects	Long-term, inhalation exposure	1.2 mg/m ³	300 µg/m ³
Systemic effects	Long-term, oral exposure	-	813 mg/kg bw/day
21324-40-3 Lithium hexafluorophosphate(1-)			
Systemic effects	Long-term, inhalation exposure	931 µg/m ³	-
	Long-term, dermal exposure	133 µg/kg bw/day	-

• PNECs:

PNEC type	Value
7782-42-5 Graphite	
Freshwater	780 µg/L
Marine water	78 µg/L
Sewage treatment plant (STP)	50 mg/L
21324-40-3 Lithium hexafluorophosphate(1-)	
Freshwater	310 µg/L
Intermittent releases (freshwater)	680 µg/L
Marine water	31 µg/L
Sewage treatment plant (STP)	48 mg/L
Sediment (freshwater)	7.73 mg/kg sediment dw
Sediment (marine water)	1.55 mg/kg sediment dw
Soil	13.5 mg/kg soil dw

• Additional information: The lists valid during the marking were used as basis.

• 8.2 Exposure controls
• Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.
• Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice; See section 7 for information about design of technical facilities.

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Personal protective equipment
Eye and face protection:

Safety glasses

Protective goggles with side-shields.

Skin protection
Hand protection:

Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

Other skin protection: Anti-acid gauntlets, boots, bodysuit are necessary.

Respiration protection: Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

Thermal hazards: All the personal protective equipment must be heat-resistant.

Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

• Physical state	Solid
• Color	Black shell
• Odor & Odor threshold	Odorless
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	Not determined
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not applicable
• Flash point	Not applicable
• Auto-ignition temperature	Not applicable
• Decomposition temperature	Not determined
• pH	Not determined
• Kinematic viscosity (mm²/s)	Not determined
• Solubility	Part is soluble in water
• Partition coefficient n-octanol/water (log value)	Not determined
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not determined
• Particle characteristics	Not determined

9.2 Other information
9.2.1 Information with regard to physical hazard classes:

• Explosives	Not applicable
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<i>• Flammable gases</i>	<i>Not applicable</i>
<i>• Aerosols</i>	<i>Not applicable</i>
<i>• Oxidising gases</i>	<i>Not applicable</i>
<i>• Gases under pressure</i>	<i>Not applicable</i>
<i>• Flammable liquids</i>	<i>Not applicable</i>
<i>• Flammable solids</i>	<i>Not applicable</i>
<i>• Self-reactive substances and mixtures</i>	<i>Not applicable</i>
<i>• Pyrophoric liquids</i>	<i>Not applicable</i>
<i>• Pyrophoric solids</i>	<i>Not applicable</i>
<i>• Self-heating substances and mixtures</i>	<i>Not applicable</i>
<i>• Substances and mixtures, which emit flammable gases in contact with water</i>	<i>Not applicable</i>
<i>• Oxidizing liquids</i>	<i>Not applicable</i>
<i>• Oxidizing solids</i>	<i>Not applicable</i>
<i>• Organic peroxides</i>	<i>Not applicable</i>
<i>• Corrosive to metals</i>	<i>Not applicable</i>
<i>• Desensitised explosives</i>	<i>Not applicable</i>
<i>• 9.2.2 Other safety characteristics</i>	
<i>• Mechanical sensitivity</i>	<i>Not applicable</i>
<i>• Self-accelerating polymerisation temperature</i>	<i>Not applicable</i>
<i>• Formation of explosible dust/air mixtures</i>	<i>Not applicable</i>
<i>• Acid/alkaline reserve</i>	<i>Not determined</i>
<i>• Evaporation rate</i>	<i>Not applicable</i>
<i>• Miscibility</i>	<i>Not applicable</i>
<i>• Conductivity</i>	<i>Not applicable</i>
<i>• Corrosiveness</i>	<i>Not determined</i>
<i>• Gas group</i>	<i>Not applicable</i>
<i>• Redox potential</i>	<i>Not applicable</i>
<i>• Radical formation potential</i>	<i>Not applicable</i>
<i>• Photocatalytic properties</i>	<i>Not applicable</i>
<i>• Other physical and chemical parameters</i>	<i>Not determined</i>

SECTION 10: Stability and reactivity

- 10.1 Reactivity: The product is no-reactive under normal conditions of use, storage and transport.*
- 10.2 Chemical stability: Under storage at normal ambient temperatures, the product is stable.*
- 10.3 Possibility of hazardous reactions: No known hazardous reaction.*
- 10.4 Conditions to avoid: High temperature and flame.*
- 10.5 Incompatible materials: Acid.*
- 10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.*

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SECTION 11: Toxicological information
11.1 Information on toxicological effects

• **Acute toxicity:** Harmful if swallowe; Fatal if inhaled.

ATE _{mix} (oral)	=891 mg/kg
ATE _{mix} (inhal.)	0.17 mg/l (dust/mist)

LD50/LC50 values relevant for classification:

182442-95-1 Cobalt lithium manganese nickel oxide

Rat	LC50-inhalation	0.07 mg/L (dust)
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21324-40-3 Lithium hexafluorophosphate(1-)

Rat	LD50-oral	200mg/kg
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Remark: All the above data are from literature.

- **Skin corrosion/irritation:** Causes severe skin burns and eye damage.
- **Serious eyes damage/ irritation:** Causes serious eye damage.
- **Respiratory or skin sensitization:** May cause an allergic skin reaction.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** May cause cancer.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **Summary of evaluation of the CMR properties:** Cancerogen.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Causes damage to organ through prolonged or repeated exposure by inhalation or ingestion.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties:

None ingredient is considered to have endocrine-disrupting properties with respect to humans as it meets the criteria set out in section A of Regulation (EU) No 2017/2100.

11.2.2 Other information: No known other relevant information on adverse health effects.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **LC50/EC50/NOEC values relevant for classification:** No available data.
- **12.2 Persistence and degradability:** No available data.
- **12.3 Bio-accumulative potential:** No available data.
- **12.4 Mobility in soil:** No available data.

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• **12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

• **12.6 Endocrine disrupting properties:**

None ingredient does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• **12.7 Other adverse effects:** No known other adverse effects.

• **12.8 Additional ecological information**

• **General notes:** WGK3 (German Regulation) (self-assessment): Severe hazard to waters.

Do not allow the product to reach ground water, water course or sewage system, even little quantity.

SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

• **Recommendation:** Must not be disposed together with household garbage.

• **13.2 Un-cleaned packaging**

• **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

Note:

This product is shipped as "Lithium ion batteries", not subject to other provisions of IMO IMDG Code according to special provision 188.

This lithium ion batteries were manufactured under the quality management program as described in IMDG CODE 2018 EDITION 2.9.4.5

Each package shall be marked with the appropriate lithium battery mark.

Packages containing lithium batteries packed in conformity with the provisions of part 4, chapter 11, packing instructions 965 or 968, section IB of the ICOA Technical Instructions for the Safe Transport of Dangerous Goods by air that bear the mark as shown in 5.2.1.10 (lithium battery mark) and the label shown 5.2.2.2, Model No.9A shall be deemed to meet the provisions of this special provision 188.

• 14.1 UN-Number (IMO IMDG)	Not applicable
• 14.2 UN proper shipping name IMO IMDG	Not applicable
• 14.3 Transport hazard class (es) IMO IMDG Class Label	Not applicable Not applicable
• 14.4 Packing group IMDG, IATA	Not applicable
• 14.5 Marine pollution	No
• 14.6 Special precautions for user • Danger code (Kemler) • EMS number	Not applicable Not applicable F-A, S-I

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• 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
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SECTION 15: Regulatory information

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

- **MAK (German Maximum Workplace Concentration):**

7782-42-5

Graphite

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- Directive 2012/18/EU

- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.

- **Seveso category:**

H2 ACUTE TOXIC

E1 Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 50

- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 200

- **National regulations.**

- **Water hazard class: WGK3 (German Regulation) (self-assessment):** Severe hazard to waters.

- **Other regulations, limitations and prohibitive regulations**

- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.

- **REACH Regulation Annex XVII Restriction:**

182442-95-1

Cobalt lithium manganese nickel oxide

Entry no.: 27

- **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

- 16.1 Indication of changes:

Not applicable

- 16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Acute Tox. 2: Acute toxicity, hazard category 2

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Trade Name: ET-D0361, ET-D0723, ET-D1081, ET-D1806, ET-D1806-1, ET1802A, ET-D1809, ET-D1810*Acute Tox. 3: Acute toxicity, hazard category 3**Acute Tox. 4: Acute toxicity, hazard category 4**Skin Corr. 1A: Skin corrosion/irritation, hazard category 1A**Skin Sens. 1: Respiratory or skin sensitisation, hazard category 1**Eye Dam. 1: Eye damage/irritation, hazard category 1**Carc. 1A: Carcinogenicity, hazard category 1A**STOT RE 1: Specific target organ toxicity after repeated exposure, hazard category 1**Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1**Aquatic Chronic 1: Long-term (chronic) aquatic hazard, hazard category 1***• 16.3 Key literature references and sources for data:**<https://echa.europa.eu/><https://chem.nlm.nih.gov/><https://www.osha.gov/><http://www.unece.org/><http://www.imo.org/><https://www.dguv.de/><https://epa.govt.nz/><http://www.ilo.org/><https://www.phmsa.dot.gov/>**• 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:**

See SECTION 2.1 (classification).

• 16.5 Relevant H- and EUH-phrases (number and full text):

H301 Toxic if swallowed

H302 Harmful if swallowed

H317 May cause an allergic skin reaction

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H330 Fatal if inhaled

H350 May cause cancer

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

• 16.6 Training advice:

Workers must be educated and trained so they can read SDS and understand the hazards, and know how to work safely with hazardous products.

• 16.7 Further information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

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End of safety data sheet