

NDS Energy (Dometic Mobile Power Italy srl)
Safety Data Sheet
Regulation (EU) 2020/878 (REACH ANNEX II)

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

1.1 Product identifier

- Product form : Article
- Trade name : 3LION
- Model No. : L20, L30, L60, L100, L100B, L150P

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

1.2.1 Relevant identified uses

- Use of the substance/mixture : Power supply. Battery Type: LiFePO4 Battery

1.2.2 Uses advised against

- Restrictions on use: : Don't use with temperature out of range
-25°C / +50°C

1.3 Details of the supplier of the safety data sheet

Supplier:

NDS Energy (Dometic Mobile Power Italy) srl
Via Giovanni Pascoli 96/98, 65010 Cappelle Sul Tavo (PE), Italy.
TEL +390854470396
FAX +390859112263
mattia@ndsenergy.it

1.4 Emergency telephone number

- Emergency number : +390854470396

SECTION 2: Hazard 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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2 Label Elements

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

Hazard pictograms (CLP)	: None
Signal word (CLP)	: None
Hazard statements (CLP)	: Not applicable
Precautionary statements (CLP)	: Not applicable.
EUH-statements	: None.

2.3 Other hazards

- Other hazards which do not result in classification: No information available

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 XII

This mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2010 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1 Substances

- Not Applicable

3.2 Mixture

3.2.1 and 3.2.2 Ingredients

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric acid, iron(2+) lithium salt (1:1:1)	CAS-No.: 15365-14-7 EC-No.: 476-700-9;604-917-2	36 – 40	Not classified
Carbon black Super-p	CAS-No.: 1333-86-4 EC-No.: 215-609-9	0,4-0,7	Not classified
Aluminum	CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-002-00-1	2 – 6	Flam. Sol. 1, H228 Water-react. 2, H261
Graphite	CAS-No.: 7782-42-5 EC-No.: 231-955-3	18 – 22	Not classified
Copper Foil	CAS-No.: 7440-50-8 EC-No.: 213-159-6 EC Index-No.: 029-024-00- X	7 – 11	Acquatic Chronic 2, H411
Phosphate(1-), hexafluoro-, lithium	CAS-No.: 21324-40-3 EC-No.: 244-334-7	0,9 – 1,2	Acute Tox. 3 (Oral), H301 Skin Corr. 1, H314 STOT RE 1, H372
Poly-vinylidene fluoride	CAS-No.: 24937-79-9	0,9-1,1	Not classified
Styrene butadiene rubber	CAS-No.: 9003-55-8	0,2-0,4	Not classified
Iron	CAS-No.: 7439-89-6 EC-No.: 231-272-3	23-27	Flam. Sol. 1, H228 Self heating 1, H251

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	: If irritation persists, consult a doctor.
First-aid measures after inhalation	: Not an expected route of exposure.
First-aid measures after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use. No special technical protective measures required.
First-aid measures after eye contact	: Not an expected route of exposure.
First-aid measures after ingestion	: Not an expected route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/Effects	: No information available
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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	: Water spray. Dry powder. Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: No information available

5.2 Special hazards arising from the substance or mixture

Fire hazard	: The product is not flammable
Hazardous decompositions products in case of fire	: Toxic fumes may be released

5.3 Advise for firefighters

Firefighting Instructions	: Pool down the containers exposed
Hazardous decompositions products in case of fire	: Toxic fumes may be released

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- 6.1.1. For non-emergency personnel

Emergency Procedures : Ventilate spillage area

- 6.1.2 For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to Section 8: "Exposure control/personal protection".

6.2 Environmental precautions

Avoid release to the environment

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use a clean shovel to collect it in a properly sealed waste container with a label and completely sealed. Such containers shall be stored in suitable locations for the purpose of handing or disposing in accordance with national law.

Other information : Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Do not open, destroy, or incinerate batteries because the battery may explode, break or vent during these processes. Do not short-circuit the battery, overcharge, forced discharge or thrown into the fire. Do not squeeze the battery or immerse the battery in the solution.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures	:Keep away from open flames, hot surface and source of ignition.
Storage conditions	: Store in well-ventilated place. Keep cool.
Incompatible	: Strong acids. Strong bases. Strong oxidizing agents

7.3 Specific end use(s)

SDS section 1.2.1 – Additional text

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

Aluminum (7429-90-5)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	10 mg/m ³ (inhalable fraction)
MAK (OEL STEL)	20 mg/m ³ (inhalable fraction)
Belgium - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction) 1.5 mg/m ³ (respirable fraction)
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust)
Croatia - Biological limit values	
BLV	200 g/l Parameter: Aluminum - Medium: urine - Sampling time: at the end of the work shift
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	10 mg/m ³ (dust)
Denmark - Occupational Exposure Limits	

OEL TWA [1]	5 mg/m ³ (dust and powder; total) 2 mg/m ³ (dust and powder; respirable)
Estonia - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust)
France - Occupational Exposure Limits	
VME (OEL TWA)	10 mg/m ³ (metal) 5 mg/m ³ (dust)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1.25 mg/m ³ (respirable fraction (dust)) 10 mg/m ³ (inhalable fraction (dust))
Germany - Biological limit values (TRGS 903)	
Biological limit value	50 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts
Greece - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	1 mg/m ³ (respirable dust)
Ireland - Occupational Exposure Limits	
OEL TWA [1]	1 mg/m ³ (respirable fraction)
OEL STEL	3 mg/m ³ (calculated-respirable dust)
Latvia - Occupational Exposure Limits	
OEL TWA	2 mg/m ³
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	
NDS (OEL TWA)	2.5 mg/m ³ (non-stabilized-inhalable fraction) 1.2 mg/m ³ (non-stabilized-respirable fraction)

Portugal - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (metal dust)
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
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 g/l Parameter: Aluminum - Medium: urine - Sampling time: end of shift
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	4 mg/m ³ (inhalable dust) 1.5 mg/m ³ (respirable dust)
Slovakia - Biological limit values	
BLV	60 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: not critical
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	1 mg/m ³ (see UNE EN 481:1995 on workplace atmospheres-respirable fraction)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	5 mg/m ³ (total dust) 2 mg/m ³ (respirable fraction)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	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)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	5 mg/m ³ (pyrotechnical-powder)
Korttidsverdi (OEL STEL)	10 mg/m ³ (pyrotechnical-powder)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	3 mg/m ³ (respirable dust)

Switzerland - BAT	
BAT	50 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: after several shifts (for long-term exposures)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ (respirable particulate matter)
ACGIH chemical category	Not Classifiable as a Human Carcinogen

Copper (7440-50-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Copper
IOEL TWA	0.01 mg/m ³ (respirable fraction)
Remark	(Year of adoption 2014)
Regulatory reference	SCOEL Recommendations
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 mist)
Bulgaria - Occupational Exposure Limits	
OEL TWA	0.1 mg/m ³ (metal vapor)
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	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	
OEL TWA [1]	1 mg/m ³ (dust and powder) 0.1 mg/m ³ (fume)
Estonia - Occupational Exposure Limits	

OEL TWA	1 mg/m ³ (total dust) 0.2 mg/m ³ (respirable dust)
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	0.02 mg/m ³ (respirable dust)
France - Occupational Exposure Limits	
VME (OEL TWA)	0.2 mg/m ³ (fume) 1mg/m ³ (dust)
VLE (OEL C/STEL)	2 mg/m ³ (dust)
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)
CK (OEL STEL)	0.2 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	0.2 mg/m ³ (fume) 1 mg/m ³ (dusts and mists)
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 dust)
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 and 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]	1 mg/m ³ (inhalable fraction) 0.2 mg/m ³ (respirable fraction)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	0.1 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]	1 mg/m ³ (dust and mists) 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) [1]	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) [1]	0.1 mg/m ³ (inhalable dust)
KZGW (OEL STEL)	0.2 mg/m ³ (inhalable dust)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.2 mg/m ³ (fume)

Graphite (7782-42-5)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	5 mg/m ³ (alveolar dust with <1% Quartz, respirable fraction)

MAK (OEL STEL)	10 mg/m ³ (alveolar dust with <1% Quartz, respirable fraction)
Belgium - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (except fibers-alveolar fraction)
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m ³ (inhalable fraction)
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	4 mg/m ³ (respirable dust) 10 mg/m ³ (total dust, inhalable particles)
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	2 mg/m ³ (dust)
Denmark - Occupational Exposure Limits	
OEL TWA [1]	2.5 mg/m ³ (natural-respirable)
Estonia - Occupational Exposure Limits	
OEL TWA	5 mg/m ³ (total dust (Dusts))
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	2 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	2 mg/m ³ (alveolar fraction)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1.25 mg/m ³ (respirable fraction (dust)) 10 mg/m ³ (inhalable fraction (dust))
Greece - Occupational Exposure Limits	
OEL TWA	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5 mg/m ³ (respirable)
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2 mg/m ³ (all forms except fibres; respirable fraction)
OEL STEL	6 mg/m ³ (calculated-all forms except fibres; respirable fraction)
Latvia - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (Carbon dust)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m ³ (dust)
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	4 mg/m ³ (natural-inhalable fraction) 1 mg/m ³ (natural-respirable fraction)
Portugal - Occupational Exposure Limits	

OEL TWA	2 mg/m ³ (all forms except Graphite fibers-respirable fraction)
Romania - Occupational Exposure Limits	
OEL TWA	2 mg/m ³ (Quartz ≤5%-dust, respirable fraction)
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	2 mg/m ³ (see UNE EN 481:1995 on workplace atmospheres-dust; respirable fraction)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	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)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	5 mg/m ³ (natural-total dust) 2 mg/m ³ (natural-respirable dust) 10 mg/m ³ (synthetic-total dust) 4 mg/m ³ (synthetic-respirable dust)
Korttidsverdi (OEL STEL)	10 mg/m ³ (natural-total dust) 4 mg/m ³ (natural-respirable dust) 20 mg/m ³ (synthetic-total dust) 8 mg/m ³ (synthetic-respirable dust)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	3 mg/m ³ (natural-respirable dust)
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (all forms except graphite fibers-respirable particulate matter)

8.1.2 Recommended monitoring procedures

No additional information available

8.1.3 Air contaminants formed

No additional information available

8.1.4 DNEL e PNEC

No additional information available

8.1.5 Control banding

No additional information available

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Ensure good ventilation of the work station

8.2.2 Personal protection equipment

8.2.2.1 Eye and face protection

Eye protection : Safety glasses

8.2.2.2 Skin protection

Skin and body protection : Wear suitable protective clothing
 Hand protection : Protective gloves

8.2.2.3 Respiratory protection

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4 Thermal hazards

No additional information available

8.2.3 Environmental exposure controls

Environmental exposure controls : Avoid release to the environment

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Black solid
Colour	: Black
Odour	: Odourless
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Not explosive
Oxidising properties	: Not oxidizing
Explosive limits	: Not available

Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2 Other information

9.2.1 Information with regard to physical hazard class

No additional information available

9.2.2 Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal condition of use, storage and transport

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazard reactions

No dangerous reactions known under normal conditions of use

10.4 Condition to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. No deformation, destruction, crushed, disassemble, overcharge, short circuit. Prolonged exposure to damp conditions.

10.5 Incompatibles materials

Strong acids. Strong bases. Oxidizing agent.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Aluminum (7429-90-5)	
LC50 Inhalation - Rat	> 0.888 mg/l/4h
Copper (7440-50-8)	
LC50 Inhalation - Rat	> 5.11 mg/l/4h
Phosphoric acid, iron(2+) lithium salt (1:1:1) (15365-14-7)	
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 3.2 mg/l/4h
Graphite (7782-42-5)	
LC50 Inhalation - Rat	> 2000 mg/m ³ (Exposure time: 4 h)
Phosphate(1-), hexafluoro-, lithium (21324-40-3)	
LD50 oral rat	50 – 300 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Phosphate(1-), hexafluoro-, lithium (21324-40-3)	
NOAEL (animal/male, FO/P)	500 mg/kg bodyweight Animal: rat, Animal sex: male

STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Graphite (7782-42-5)

NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.000279 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Phosphate(1-), hexafluoro-, lithium (21324-40-3)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified

11.2 Informations on hazard

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 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

11.2.2 Other information

Other information

: No information available

SECTION 12: Ecological information

12.1 Toxicity

Ecology-general

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment

Hazardous to the aquatic environment, short-term (acute)

: Not classified

Hazardous to the aquatic environment, long-term (chronic)

: Not classified

Copper (7440-50-8)	
LC50 - Fish [1]	0.0068 – 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

LC50 - Fish [2]	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 72h - Algae [1]	0.0426 – 0.0535 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	0.031 – 0.054 mg/l (Species: Pseudokirchneriella subcapitata [static])
Graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	19 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	7.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	47 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Phosphate(1-), hexafluoro-, lithium (21324-40-3)	
EC50 96h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	4 mg/l Test organisms (species): Duration: '21 d'

12.2 Persistence and degradability

Persistence and degradability : No information available

12.3 Bioaccumulative potential

Bioaccumulative potential : No information available

12.4 Mobility in soil

Ecology-soil : No information available

12.5 Results of PBT and vPvB assessment

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 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 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

12.7 Other adverse effects

Other adverse effects

No information available

SECTION 13: Disposal consideration

13.1 Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.






Contaminated packaging

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transporting information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3480	UN 3480	UN 3480	UN 3480	UN 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, 9A, (E)	UN 3480 LITHIUM ION BATTERIES, 9	UN 3480 Lithium ion batteries, 9A	UN 3480 LITHIUM ION BATTERIES, 9A	UN 3480 LITHIUM ION BATTERIES, 9A
14.3. Transport hazard class(es)				
9A	9A	9A	9A	9A
				
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

Overland transport

Classification code (ADR)	: M4
Special provisions (ADR)	: 188,230,310,348,376,377,387,636
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P903,P908,P909,P910,LP903,LP904
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: E
EAC code	: 4W

Transport by sea

Special provisions (IMDG)	: 188,230,310,348,376,377,384
Packing instructions (IMDG)	: P903,P908,P909,P910,LP903,LP904
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 encased in a rigid metallic body. Lithium ion batteries may also be

shipped in, or packed with, equipment. Electrical lithium batteries may cause fire due to an explosive rupture of the body caused by improper construction or reaction with contaminants.

Air transport

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, A164, A183, A201, A206, 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
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
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 instruction

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

Contains no substance on the REACH candidate list
 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.
 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

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.
 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.
 Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Regulatory information

Indication of changes:

No information available

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
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
OEL	Occupational Exposure Limit
PBT	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
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:	
	None
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Flam. Sol. 1	Flammable solids, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H251	Self Heating, Category 1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be constructed as guaranteeing any specific property of the product.

Date

12/06/2023

Signature for approval

DOMETIC MOBILE POWER ITALY SRL