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

1.1. Product identifier

Product form : Article
Trade name/designation : NitroLead Acid Battery
Type of product : Lead Acid Battery
Synonymes : Sealed lead Acid Battery, Gel battery, maintenance free battery
Product group : Trade product

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Starter battery

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

DC-AFAM NV
Venecoweg 22A – De Prikjels E17
B 9810 Nazareth
T +32 (0) 9 243 73 73
F +32 (0) 9 243 73 95
service@dc-afam.com

Company Name :
Address :
Phone number :
Fax number :
Email :

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified


2.2. Label elements

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

Not applicable.

2.3. Other hazards

Other hazards : PBT/vPvB data : Not applicable . This article contains neither dangerous substances nor dangerous mixtures which are intended to be released under normal or reasonably foreseeable conditions of use.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lead substance listed as REACH Candidate	(CAS-No.) 7439-92-1 (EC-No.) 215-267-0;231-100-4 (EC Index) 082-014-00-7	65 - 75	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sulfuric Acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index) 016-020-00-8 (REACH-no) 01-2119458838-20-0089	~ 5	Skin Corr. 1A, H314
Tin	(CAS-No.) 7440-31-5 (EC-No.) 231-141-8	< 0,5	Not classified
Calcium	(CAS-No.) 7440-70-2 (EC-No.) 231-179-5 (EC Index) 020-001-00-X	< 0,1	Water-react. 2, H261

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
Sulfuric Acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index) 016-020-00-8 (REACH-no) 01-2119458838-20-0089	(5 =<C < 15) Eye Irrit. 2, H319 (5 =<C < 15) Skin Irrit. 2, H315 (C >= 15) Skin Corr. 1A, H314

Full text of H-statements: see section 16


SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection. See also section 8 . Show this safety data sheet to the doctor in attendance. Treat symptomatically. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention. Artificial respiration and/or oxygen may be necessary.
Skin contact	: Remove contaminated, saturated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Get immediate medical advice/attention.
Eyes contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Ingestion	: Call a physician immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Aspiration hazard if swallowed - can enter lungs and cause damage. Observe risk of aspiration if vomiting occurs.

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

Inhalation	: None under normal processing. Inhalation of fumes or vapours may cause respiratory irritation. (Electrolyte).
Skin contact	: None under normal processing. May cause skin irritation. Burns . (Electrolyte).
Eyes contact	: None under normal processing. May cause eye irritation. Burns . (Electrolyte).
Ingestion	: None under normal processing. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract . (Electrolyte).

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder. Fire class B. Dry sand.

Unsuitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

Explosion hazard : Heating may cause an explosion.

Hazardous decomposition products in case of fire : Metallic oxides. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : In case of fire: Wear self-contained breathing apparatus. Special protective equipment for firefighters. Goggles. Protective clothing. Gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Provide adequate ventilation. Evacuate personnel to a safe area. Avoid contact with skin, eyes and clothing. Do not breathe vapours. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Reference to other sections 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (eg. cloth, fleece). Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections


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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Disconnect the battery before working on or near any disposed part of the vehicle electrical system. Take any precaution to avoid mixing with combustibles... Refer to Section 10 on Incompatible Materials. Avoid shock and friction.

Hygiene measures : Use only in area provided with appropriate exhaust ventilation. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Keep good industrial hygiene.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Store in dry, cool, well-ventilated area. Store at room temperature. Protect from moisture. Protect from sunlight. Keep away from heat. Remove all sources of ignition. Avoid shock and friction.

7.3. Specific end use(s)

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lead (7439-92-1)		
Austria	MAK (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	0,4 mg/m ³ (inhalable fraction)
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,15 mg/m ³
Cyprus	OEL TWA (mg/m ³)	0,15 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,05 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³ (dust, fume and powder)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³ (total dust) 0,05 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	0,1 mg/m ³ (all works)
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit)
Germany	TRGS 903 Biological limit value	300 µg/l Parameter: Lead - Medium: whole blood - Sampling time: no restriction (women age below 45 years) 400 µg/l Parameter: Lead - Medium: whole blood - Sampling time: no restriction
Gibraltar	8h mg/m ³	0,15 mg/m ³
Greece	OEL TWA (mg/m ³)	0,15 mg/m ³
Hungary	AK-érték	0,15 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,15 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0,45 mg/m ³ (calculated)
Italy	OEL TWA (mg/m ³)	0,075 mg/m ³
Latvia	OEL TWA (mg/m ³)	0,05 mg/m ³
Lithuania	IPRV (mg/m ³)	0,15 mg/m ³ (inhalable fraction) 0,07 mg/m ³ (respirable fraction)
Luxembourg	OEL TWA (mg/m ³)	0,15 mg/m ³
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,15 mg/m ³
Poland	NDS (mg/m ³)	0,05 mg/m ³ (inhalable fraction)
Portugal	OEL TWA (mg/m ³)	0,15 mg/m ³ (mandatory indicative limit value)
Romania	OEL TWA (mg/m ³)	0,15 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,15 mg/m ³ (inhalable fraction) 0,5 mg/m ³ (respirable fraction)
Slovenia	OEL TWA (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	0,4 mg/m ³ (inhalable fraction)
Spain	VLA-ED (mg/m ³)	0,15 mg/m ³



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Lead (7439-92-1)

Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (inhalable dust) 0,05 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	0,15 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	0,45 mg/m ³ (calculated)
Norway	Grenseverdier (AN) (mg/m ³)	0,05 mg/m ³ (dust and fume)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,15 mg/m ³ (value calculated-dust and fume)
Switzerland	MAK (mg/m ³)	0,1 mg/m ³ (inhalable dust)
Switzerland	KZGW (mg/m ³)	0,8 mg/m ³ (inhalable dust)
Australia	TWA (mg/m ³)	0,05 mg/m ³ (dust and fume)
Canada (Quebec)	VEMP (mg/m ³)	0,05 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	0,05 mg/m ³
USA - IDLH	US IDLH (mg/m ³)	100 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	0,05 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³

Tin (7440-31-5)

Austria	MAK (mg/m ³)	2 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	2 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,1 mg/m ³ 2 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	2 mg/m ³
Cyprus	OEL TWA (mg/m ³)	2 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Greece	OEL TWA (mg/m ³)	2 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	6 mg/m ³ (calculated)
Malta	OEL TWA (mg/m ³)	2 mg/m ³
Poland	NDS (mg/m ³)	2 mg/m ³ (inhalable fraction)
Portugal	OEL TWA (mg/m ³)	2 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,1 mg/m ³ (applies to organic compounds- inhalable fraction) 2 mg/m ³ (applies to inorganic compounds)
Spain	VLA-ED (mg/m ³)	2 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	2 mg/m ³ (inhalable dust)
Australia	TWA (mg/m ³)	2 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	2 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA - IDLH	US IDLH (mg/m ³)	100 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³

Sulfuric Acid (7664-93-9)

EU	IOELV TWA (mg/m ³)	0,05 mg/m ³ (taking into account potential limitations and interferences which take place in the presence of other Sulphur compounds-mist)
Austria	MAK (mg/m ³)	0,1 mg/m ³ (corresponds to 0.05 mg/m ³ Thoracic-inhalable fraction)
Austria	MAK Short time value (mg/m ³)	0,2 mg/m ³ (inhalable fraction)



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Sulfuric Acid (7664-93-9)

Belgium	Limit value (mg/m ³)	0,2 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,05 mg/m ³
Cyprus	OEL TWA (mg/m ³)	0,05 mg/m ³ (vapor)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³ 0,05 mg/m ³ (concentrated-mist)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³ (thoracic fraction-mist)
Estonia	OEL TWA (mg/m ³)	1 mg/m ³ (particles that reach the upper respiratory tract)
Finland	HTP-arvo (8h) (mg/m ³)	0,05 mg/m ³ (thoracic fraction)
Finland	HTP-arvo (15 min)	0,1 mg/m ³ (thoracic fraction)
France	VME (mg/m ³)	0,05 mg/m ³ (thoracic fraction)
France	VLE (mg/m ³)	3 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,1 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Gibraltar	8h mg/m ³	0,05 mg/m ³ (when selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds-thoracic fraction)
Greece	OEL TWA (mg/m ³)	0,05 mg/m ³ (mist)
Hungary	AK-érték	0,05 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	0,05 ppm
Ireland	OEL (15 min ref) (ppm)	0,15 ppm (calculated)
Italy	OEL TWA (mg/m ³)	0,05 mg/m ³ (When choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds, respirable fraction-thoracic fraction, mist)
Latvia	OEL TWA (mg/m ³)	0,05 mg/m ³ (by choosing an appropriate exposure monitoring method there should be taken into account possible restrictions and the impact which could be caused by the presence of other Sulfur components-fog, which is defined as the thoracic fraction)
Lithuania	IPRV (mg/m ³)	0,05 mg/m ³ (vapor)
Lithuania	TPRV (mg/m ³)	3 mg/m ³ (fog-vapor)
Luxembourg	OEL TWA (mg/m ³)	0,05 mg/m ³
Malta	OEL TWA (mg/m ³)	0,05 mg/m ³ (mist)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,05 mg/m ³ (defined as thoracic fraction-mist)
Poland	NDS (mg/m ³)	0,05 mg/m ³ (thoracic fraction)
Portugal	OEL TWA (mg/m ³)	0,05 mg/m ³ (thoracic fraction-mist)
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³ (when selecting an appropriate exposure monitoring method there should be taken in account the potential limitations and interferences that may arise because of other Sulfur compounds presence)

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Sulfuric Acid (7664-93-9)		
Slovakia	NPHV (priemerná) (mg/m ³)	0,05 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,05 mg/m ³ (inhalable fraction, fog)
Spain	VLA-ED (mg/m ³)	0,05 mg/m ³ (indicative limit value-mist)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
Sweden	kortidsvärde (KTV) (mg/m ³)	0,2 mg/m ³ (inhalable fraction)
United Kingdom	WEL TWA (mg/m ³)	0,05 mg/m ³ (mist)
United Kingdom	WEL STEL (mg/m ³)	0,15 mg/m ³ (calculated-mist)
Norway	Grenseverdier (AN) (mg/m ³)	0,1 mg/m ³ (thoracic fraction)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,3 mg/m ³ (value calculated-thoracic fraction)
Switzerland	MAK (mg/m ³)	0,1 mg/m ³ (inhalable dust)
Switzerland	KZGW (mg/m ³)	0,2 mg/m ³ (inhalable dust)
Australia	TWA (mg/m ³)	1 mg/m ³
Australia	STEL (mg/m ³)	3 mg/m ³
Canada (Quebec)	VECD (mg/m ³)	3 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	0,2 mg/m ³
USA - IDLH	US IDLH (mg/m ³)	15 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

Additional information : Concentration measurement in air. Personal monitoring


8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharges. Organisational measures to prevent /limit releases, dispersion and exposure : See also section 7 .
Hand protection	: Not required for normal conditions of use. Protective gloves (EN 374) -. NBR (Nitrile rubber) . The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Not required for normal conditions of use. Safety glasses (EN 166)
Body protection	: Not required for normal conditions of use
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Full face mask (EN 136). Half-face mask (DIN EN 140). Filter type: AP (EN141).
Environmental exposure controls	: Comply with applicable Community environmental protection legislation. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Unit. Hermetically sealed.
Colour	: black case & blue lid.

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Odour	: None.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: Not applicable
Freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not applicable
Vapour density	: No data available
Relative density	: Not applicable
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: Not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat. Avoid shock and friction. See also section 7 : Handling and storage .

10.5. Incompatible materials

Strong oxidizing agents. Acids. Water. See also section 7 .


10.6. Hazardous decomposition products

None under normal conditions. Hazardous decomposition products : Carbon oxides. Copper oxides. metal oxides, ... Reference to other sections 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Article: Not applicable)

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Tin (7440-31-5)	
LD50/oral/rat	700 mg/kg

Sulfuric Acid (7664-93-9)	
LD50/oral/rat	2140 mg/kg bodyweight
LC50, Inhalation, Rat	375 mg/m ³
LC50, 4h, Inhalation, mouse	0.85 mg/l
LC50, 8h, Inhalation, mouse	0.6 mg/l

Skin corrosion/irritation	: Not classified (Article: Not applicable)
Serious eye damage/irritation	: Not classified (Article: Not applicable)
Respiratory or skin sensitisation	: Not classified (Article: Not applicable)
Germ cell mutagenicity	: Not classified (Article: Not applicable)
Carcinogenicity	: Not classified (Article: Not applicable)
Reproductive toxicity	: Not classified (Article: Not applicable)
STOT-single exposure	: Not classified (Article: Not applicable)
STOT-repeated exposure	: Not classified (Article: Not applicable)

Sulfuric Acid (7664-93-9)	
LOAEC, 28d, Inhalation, Rat	0.3 mg/m ³

Aspiration hazard : Not classified (Article: Not applicable)

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Ecological injuries are not known or expected under normal use.

Lead (7439-92-1)	
LC50 fish 1	0,44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	600 µg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	1,17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

Sulfuric Acid (7664-93-9)	
LC50 fish 1	16 mg/l (96h)
LC50 other aquatic organisms 1	100 mg/l Invertebrates.
EC50 other aquatic organisms 1	100 mg/l Invertebrates.
NOEC (additional information)	NOEC, Fish : 0.025 mg/L NOEC, Invertebrates. : 0.15 mg/L NOEC, algae : 100 mg/L (Freshwater)

12.2. Persistence and degradability

NitroLead Acid Battery	
Persistence and degradability	No data available.


12.3. Bioaccumulative potential

NitroLead Acid Battery	
Bioaccumulative potential	No data available.

Sulfuric Acid (7664-93-9)	
BCF fish 1	(no bioaccumulation)

12.4. Mobility in soil

NitroLead Acid Battery	
Ecology - soil	No data available.

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12.5. Results of PBT and vPvB assessment

NitroLead Acid Battery	
Results of PBT assessment	Not applicable.
ingredient	
Lead (7439-92-1)	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

Other adverse effects : No information available.

SECTION 13: Disposal considerations






13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not puncture or incinerate.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions:
other batteries and accumulators
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information


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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2800	2800	2800	2800	2800
14.2. UN proper shipping name				
BATTERIES, WET, NON-SPILLABLE	BATTERIES, WET, NON-SPILLABLE	Batteries, wet, non-spillable	BATTERIES, WET, NON-SPILLABLE	BATTERIES, WET, NON-SPILLABLE
Transport document description				
UN 2800 BATTERIES, WET, NON-SPILLABLE, 8, (E)	UN 2800 BATTERIES, WET, NON-SPILLABLE, 8	UN 2800 Batteries, wet, non-spillable, 8	UN 2800 BATTERIES, WET, NON-SPILLABLE, 8	UN 2800 BATTERIES, WET, NON-SPILLABLE, 8
14.3. Transport hazard class(es)				
8	8	8	8	8
				
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) : C11
Special provisions : 238, 295, 598

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Limited quantities (ADR) : 1l
 Excepted quantities (ADR) : E0
 Packing instructions (ADR) : P003, P801a
 Special packing provisions (ADR) : PP16
 Transport category (ADR) : 3
 Special provisions for carriage - Bulk (ADR) : VV14
 Hazard identification number (Kemler No.) : 80
 Orange plates :



Tunnel restriction code : E
 EAC code : 2R

- Transport by sea

Special provisions (IMDG) : 29, 238
 Limited quantities (IMDG) : 1 L
 Excepted quantities (IMDG) : E0
 Packing instructions (IMDG) : P003
 Special packing provisions (IMDG) : PP16
 EmS-No. (Fire) : F-A
 EmS-No. (Spillage) : S-B
 Stowage category (IMDG) : A
 Properties and observations (IMDG) : Metal plates immersed in gelled alkaline or acid electrolyte in a glass, hard rubber or plastics receptacle of a non-spillable type. When electrically charged, may cause fire through short-circuiting of terminals. Cause burns to skin, eyes and mucous membranes.

- Air transport


PCA Excepted quantities (IATA) : E0
 PCA Limited quantities (IATA) : Forbidden
 PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : 872
 PCA max net quantity (IATA) : No limit
 CAO packing instructions (IATA) : 872
 CAO max net quantity (IATA) : No limit
 Special provisions (IATA) : A48, A67, A164, A183
 ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C11
 Special provisions (ADN) : 238, 295, 598
 Limited quantities (ADN) : 1 L
 Excepted quantities (ADN) : E0
 Equipment required (ADN) : PP, EP
 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C11

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Special provisions (RID) : 238, 295, 598
 Limited quantities (RID) : 1L
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P003, P801a
 Special packing provisions (RID) : PP16
 Transport category (RID) : 3
 Special provisions for carriage – Bulk (RID) : VW14
 Colis express (express parcels) (RID) : CE8
 Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

Contains no substance on the REACH candidate list

15.1.2. National regulations

France
 Installations classées :
 Not applicable.

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)


Netherlands

SZW-lijst van kankerverwekkende stoffen : Sulfuric Acid is listed
 SZW-lijst van mutagene stoffen : None of the components are listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Lead is listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Lead is listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Lead is listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
 Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

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

Sulfuric Acid

SECTION 16: Other information

Abbreviations and acronyms:

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	EC50 = Median Effective Concentration
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


Sources of key data used to compile the datasheet : SDS Manufacturer/Supplier, LOLI, European chemicals Agency.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - chronic hazard category 1
Repr. 1A	Reproductive toxicity, Category 1A
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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