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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 : Nitro Lead Acid Battery (Acid package seperately)
Type of product : Lead Acid Battery
Synonyms : Dry Charged Battery with Seperate Acid Pack, 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

Intended for general public
Main use category : Industrial use, Professional uses, Consumer use : REF EU 2019/1148
Use of the substance/mixture : 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 - Belgium
T +32(0)9 243 73 90 - F +32(0)9 243 73 95
service@dc-afam.com
www.afam.com

1.4. Emergency telephone number

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

Skin Corr. 1 H314

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

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Signal word : Danger

Hazardous ingredients : Sulphuric acid 42 %

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe vapours.
P280 - Wear protective clothing/eye protection/face protection, protective gloves.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P405 - Store locked up.
P501 - Dispose of contents and container to an approved waste disposal plant.

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.

Component	
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

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

Component	
Lead(7439-92-1)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Article



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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
Sulphuric acid 42 %	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index) 016-020-00-8	≤ 42	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
Sulphuric acid 42 %	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index) 016-020-00-8	(5 ≤C < 15) Eye Irrit. 2, H319 (5 ≤C < 15) Skin Irrit. 2, H315 (15 ≤C < 100) 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).

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- For non-emergency personnel : 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. Avoid shock and friction. Take any precaution to avoid mixing with incompatible materials. Refer to Section 10 on Incompatible Materials.
- 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.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, cool and well-ventilated place. Protect from moisture. Store at room temperature. Remove all sources of ignition. Avoid shock and friction. Do not store near or with any of the incompatible materials listed in section 10.
- Incompatible materials : Strong oxidizing agents. Acids. Water.
- Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.



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Special rules on packaging

: Do not pierce or burn, even after use.

7.3. Specific end use(s)

Starter battery.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lead (7439-92-1)		
Austria	MAK (OEL TWA)	0,1 mg/m ³ (inhalable fraction)
Austria	MAK (OEL STEL)	0,4 mg/m ³ (inhalable fraction)
Bulgaria	OEL TWA	0,05 mg/m ³
Croatia	GVI (OEL TWA) [1]	0,15 mg/m ³
Cyprus	OEL TWA	0,15 mg/m ³
Czech Republic	PEL (OEL TWA)	0,05 mg/m ³
Denmark	OEL TWA [1]	0,05 mg/m ³ (dust, fume and powder)
Estonia	OEL TWA	0,1 mg/m ³ (total dust) 0,05 mg/m ³ (respirable dust)
Finland	HTP (OEL TWA) [1]	0,1 mg/m ³ (all works (Annex 3))
France	VME (OEL TWA)	0,1 mg/m ³ (restrictive limit)
Germany	BLV	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	OEL TWA	0,15 mg/m ³
Greece	OEL TWA	0,15 mg/m ³
Hungary	AK (OEL TWA)	0,1 mg/m ³ 0,05 mg/m ³ (respirable dust)
Ireland	OEL TWA [1]	0,15 mg/m ³
Ireland	OEL STEL	0,45 mg/m ³ (calculated)
Italy	OEL TWA	0,15 mg/m ³
Latvia	OEL TWA	0,05 mg/m ³
Lithuania	IPRV (OEL TWA)	0,15 mg/m ³ (inhalable fraction) 0,07 mg/m ³ (respirable fraction)
Luxembourg	OEL TWA	0,15 mg/m ³
Netherlands	MAC-TGG (OEL TWA)	0,15 mg/m ³
Poland	NDS (OEL TWA)	0,05 mg/m ³ (inhalable fraction)
Portugal	OEL TWA	0,05 mg/m ³ (mandatory indicative limit value)
Romania	OEL TWA	0,15 mg/m ³
Slovakia	NPHV (OEL TWA) [1]	0,15 mg/m ³ (inhalable fraction) 0,5 mg/m ³ (respirable fraction)
Slovenia	OEL TWA	0,1 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL	0,4 mg/m ³ (inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	0,15 mg/m ³
Sweden	NGV (OEL TWA)	0,1 mg/m ³ (inhalable fraction) 0,05 mg/m ³ (respirable fraction)
United Kingdom	WEL TWA (OEL TWA) [1]	0,15 mg/m ³
United Kingdom	WEL STEL (OEL STEL)	0,45 mg/m ³ (calculated)
Norway	Grønseverdi (OEL TWA) [1]	0,05 mg/m ³ (dust and fume)



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Lead (7439-92-1)		
Norway	Korttidsverdi (OEL STEL)	0,15 mg/m ³ (value calculated-dust and fume)
Switzerland	MAK (OEL TWA) [1]	0,1 mg/m ³ (inhalable dust)
Switzerland	KZGW (OEL STEL)	0,8 mg/m ³ (inhalable dust)
Australia	OES TWA [1]	0,05 mg/m ³ (dust and fume)
Canada (Quebec)	VEMP (OEL TWA)	0,05 mg/m ³
USA - ACGIH	ACGIH OEL TWA	0,05 mg/m ³
USA - IDLH	IDLH	100 mg/m ³
USA - NIOSH	NIOSH REL TWA	0,05 mg/m ³
USA - OSHA	OSHA PEL TWA [1]	50 µg/m ³
Sulphuric acid 42 % (7664-93-9)		
EU	IOEL TWA	0,05 mg/m ³ (taking into account potential limitations and interferences which take place in the presence of other Sulphur compounds-mist (thoracic fraction))
Austria	MAK (OEL TWA)	0,1 mg/m ³ (corresponds to 0.05 mg/m ³ Thoracic-inhalable fraction)
Austria	MAK (OEL STEL)	0,2 mg/m ³ (inhalable fraction)
Belgium	OEL TWA	0,2 mg/m ³
Bulgaria	OEL TWA	0,05 mg/m ³
Croatia	GVI (OEL TWA) [1]	0,05 mg/m ³
Cyprus	OEL TWA	0,05 mg/m ³ (vapor)
Czech Republic	PEL (OEL TWA)	1 mg/m ³ 0,05 mg/m ³ (concentrated-mist)
Denmark	OEL TWA [1]	0,05 mg/m ³ (thoracic fraction-mist)
Estonia	OEL TWA	0,5 mg/m ³ (particles that reach the upper respiratory tract)
Finland	HTP (OEL TWA) [1]	0,05 mg/m ³ (thoracic fraction)
Finland	HTP (OEL STEL)	0,1 mg/m ³ (thoracic fraction)
France	VME (OEL TWA)	0,05 mg/m ³ (thoracic fraction)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	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	OEL TWA	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	0,05 mg/m ³ (mist)
Hungary	AK (OEL TWA)	0,05 mg/m ³ (respirable fraction of the thoracic fraction)
Ireland	OEL TWA [2]	0,05 ppm
Ireland	OEL STEL [ppm]	0,15 ppm (calculated)
Italy	OEL TWA	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)



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Sulphuric acid 42 % (7664-93-9)

Latvia	OEL TWA	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 (OEL TWA)	0,05 mg/m ³ (vapor)
Lithuania	TPRV (OEL STEL)	3 mg/m ³ (fog-vapor)
Luxembourg	OEL TWA	0,05 mg/m ³ (thoracic fraction)
Malta	OEL TWA	0,05 mg/m ³ (mist)
Netherlands	MAC-TGG (OEL TWA)	0,05 mg/m ³ (mist, thoracic fraction)
Poland	NDS (OEL TWA)	0,05 mg/m ³ (thoracic fraction)
Portugal	OEL TWA	0,05 mg/m ³ (thoracic fraction-mist)
Romania	OEL TWA	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-thoracic fraction)
Slovakia	NPHV (OEL TWA) [1]	0,05 mg/m ³
Slovenia	OEL TWA	0,05 mg/m ³ (inhalable fraction, fog)
Slovenia	OEL STEL	0,05 mg/m ³ (inhalable fraction, fog)
Spain	VLA-ED (OEL TWA) [1]	0,05 mg/m ³ (indicative limit value-mist)
Sweden	NGV (OEL TWA)	0,1 mg/m ³ (inhalable fraction)
Sweden	KTV (OEL STEL)	0,2 mg/m ³ (inhalable fraction)
United Kingdom	WEL TWA (OEL TWA) [1]	0,05 mg/m ³ (mist)
United Kingdom	WEL STEL (OEL STEL)	0,15 mg/m ³ (calculated-mist)
Norway	Grenseverdi (OEL TWA) [1]	0,1 mg/m ³ (thoracic fraction)
Norway	Korttidsverdi (OEL STEL)	0,3 mg/m ³ (value calculated-thoracic fraction)
Switzerland	MAK (OEL TWA) [1]	0,1 mg/m ³ (inhalable dust)
Switzerland	KZGW (OEL STEL)	0,2 mg/m ³ (inhalable dust)
Australia	OES TWA [1]	1 mg/m ³
Australia	OES STEL	3 mg/m ³
Canada (Quebec)	VECD (OEL STEL)	3 mg/m ³
Canada (Quebec)	VEMP (OEL TWA)	1 mg/m ³
USA - ACGIH	ACGIH OEL TWA	0,2 mg/m ³
USA - IDLH	IDLH	15 mg/m ³
USA - NIOSH	NIOSH REL TWA	1 mg/m ³
USA - OSHA	OSHA PEL TWA [1]	1 mg/m ³

Tin (7440-31-5)

Austria	MAK (OEL TWA)	2 mg/m ³ (inhalable fraction)
Austria	MAK (OEL STEL)	4 mg/m ³ (inhalable fraction)
Belgium	OEL TWA	2 mg/m ³
Bulgaria	OEL TWA	0,1 mg/m ³ (applies to its organic compounds) 2 mg/m ³ (applies to its inorganic compounds)
Croatia	GVI (OEL TWA) [1]	2 mg/m ³
Cyprus	OEL TWA	2 mg/m ³
Finland	HTP (OEL TWA) [1]	2 mg/m ³



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Tin (7440-31-5)		
Greece	OEL TWA	2 mg/m ³
Ireland	OEL TWA [1]	2 mg/m ³
Ireland	OEL STEL	6 mg/m ³ (calculated)
Malta	OEL TWA	2 mg/m ³
Poland	NDS (OEL TWA)	2 mg/m ³ (inhalable fraction)
Portugal	OEL TWA	2 mg/m ³
Slovenia	OEL TWA	2 mg/m ³ (applies to Tin(IV) inorganic compounds-inhalable fraction) 8 mg/m ³ (applies to Tin(II) inorganic compounds-inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	2 mg/m ³
Sweden	NGV (OEL TWA)	2 mg/m ³ (inhalable fraction)
Australia	OES TWA [1]	2 mg/m ³
Canada (Quebec)	VEMP (OEL TWA)	2 mg/m ³
USA - ACGIH	ACGIH OEL TWA	2 mg/m ³ (inhalable particulate matter)
USA - IDLH	IDLH	100 mg/m ³
USA - NIOSH	NIOSH REL TWA	2 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 (DIN 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 : Liquid
- Appearance : Unit. Hermetically sealed.
- Colour : black case & blue lid.
- Odour : None.
- Odour threshold : Not applicable
- pH : Not applicable
- pH solution : Not applicable
- Relative evaporation rate (butylacetate=1) : Not applicable



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Melting / freezing point	: Not applicable
Freezing point	: Not applicable
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: Not applicable
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water	: Not applicable
Kinematic viscosity	: Not applicable
Dynamic viscosity	: Not applicable
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
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Avoid shock and friction. See Section 7 for information on safe handling.

10.5. Incompatible materials

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

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10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity : Not classified (Article: Not applicable)

Sulphuric acid 42 % (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

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

Skin corrosion/irritation : Causes severe skin burns. (Article: Not applicable)
pH: Not applicable

Serious eye damage/irritation : Assumed to cause serious eye damage (Article: Not applicable)
pH: 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)

Sulphuric acid 42 % (7664-93-9)	
LOAEC, 28d, Inhalation, Rat	0.3 mg/m ³

Aspiration hazard : Not classified (Article: Not applicable)

Nitro Lead Acid Battery (Acid package separately)	
Kinematic viscosity	Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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

SECTION 12: Ecological information

12.1. Toxicity

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

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

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



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Lead (7439-92-1)	
LC50 - Fish [1]	0,44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
LC50 - Fish [2]	1,17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	600 µg/l (Exposure time: 48 h - Species: water flea)
Sulphuric acid 42 % (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

Nitro Lead Acid Battery (Acid package separately)	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

Nitro Lead Acid Battery (Acid package separately)	
Partition coefficient n-octanol/water	Not applicable
Bioaccumulative potential	No data available.

Sulphuric acid 42 % (7664-93-9)

BCF - Fish [1]	(no bioaccumulation)
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12.4. Mobility in soil

Nitro Lead Acid Battery (Acid package separately)	
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

Nitro Lead Acid Battery (Acid package separately)	
Results of PBT assessment	Not applicable.

Component	
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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable

12.7. Other adverse effects

Other adverse effects : No information available



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.
- Additional information : Do not puncture or incinerate.
- 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				
2796	2796	2796	2796	2796
14.2. UN proper shipping name				
BATTERY FLUID, ACID	BATTERY FLUID, ACID	Battery fluid, acid	BATTERY FLUID, ACID	BATTERY FLUID, ACID
Transport document description				
UN 2796 BATTERY FLUID, ACID, 8, II, (E)	UN 2796 BATTERY FLUID, ACID, 8, II	UN 2796 Battery fluid, acid, 8, II	UN 2796 BATTERY FLUID, ACID, 8, II	UN 2796 BATTERY FLUID, ACID, 8, II
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
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) : C1
- Limited quantities (ADR) : 1I
- Excepted quantities (ADR) : E2
- Packing instructions (ADR) : P001, IBC02
- Mixed packing provisions (ADR) : MP15
- Portable tank and bulk container instructions (ADR) : T8
- Portable tank and bulk container special provisions (ADR) : TP2



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Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code : E
EAC code : 2R

- Transport by sea

Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
IBC special provisions (IMDG) : B20
Tank instructions (IMDG) : T8
Tank special provisions (IMDG) : TP2
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : B
Properties and observations (IMDG) : Colourless liquid, mixture not exceeding 1.405 relative density. Highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C1
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C1
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T8
Portable tank and bulk container special provisions (RID) : TP2

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Tank codes for RID tanks (RID) : L4BN
 Transport category (RID) : 2
 Colis express (express parcels) (RID) : CE6
 Hazard identification number (RID) : 80

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : Applicable.
 IBC product name : Sulphuric acid
 Ship type : Type 3
 Pollution category : Y

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains one substance (s) from the list of candidate substances of REACH in a concentration > 0,1%: Lead (EC 215-267-0;231-100-4, CAS 7439-92-1)

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany


Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
 Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : categorie Z(1) - niet-afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/ mutageniteit/ reprotoxiciteit/ bioacumulerend vermogen/ toxiciteit of persistentie) (Electrolyte)
 SZW-lijst van kankerverwekkende stoffen : None of the components are 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

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15.2. Chemical safety assessment

Not applicable

For the following substances of this mixture a chemical safety assessment has been carried out
Sulphuric acid 42 %

SECTION 16: Other information

Indication of changes:

5.3	Protection during firefighting	Modified	
7.2	Conditions for safe storage, including any incompatibilities	Modified	
10.6	Hazardous decomposition products	Modified	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
15.1	Water hazard class (WGK)	Modified	
15.1	Waterbezwaarlijkheid	Added	

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 (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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1A	Reproductive toxicity, Category 1A



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Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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, Category 2
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
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) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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