

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 11-11-2022 Version: 1.0

Restricted' and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

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

1.1. Product identifier	
Product form Product name Product code Type of product	 Article Smoke Alarm carbon zinc battery DTCTSC10WT, DTCTSC10WT2 Carbon zinc cylindrical cells/batteries are considered to be "dry cell" batteries and are unregulated for purposes of transportation by the U.S.Department of Transportation (DOT), International Civic Aviation Administration (ICAO), International Air Transport Association
	(IATA), the International Maritime Organization (IMO). (Carbon zinc batteries are not regulated for transportation as "DANGEROUS GOODS" under the IATA Dangerous Goods Regulations 61th edition 2020.)
	Special Provision A123: "Examples of such batteries are: alkali-manganese, zinc-carbon and nickel-cadmium batteries. Any electrical battery having the potential of a dangerous evolution of heat must be prepared for transport as to prevent (a) a short[1]circuit (e.g by the effective insulation of exposed terminals); and (b) accidental activation. The words'Not

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Nedis B.V. De Tweeling 28 5215MC 's Hertogenbosch – The Netherlands T +31 735991055 www.nedis.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Contains

: manganese dioxide, ammonium chloride, zinc chloride, Lead

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
manganese dioxide	CAS-No.: 1313-13-9 EC-No.: 215-202-6 EC Index-No.: 025-001-00-3	25 – 35	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302
ZINC	CAS-No.: 7440-66-6 EC-No.: 231-175-3	10 – 20	Not classified
carbon black	CAS-No.: 1333-86-4	5 – 15	Not classified
ammonium chloride	CAS-No.: 12125-02-9 EC-No.: 235-186-4 EC Index-No.: 017-014-00-8	0 – 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
zinc chloride	CAS-No.: 7646-85-7 EC-No.: 231-592-0 EC Index-No.: 030-003-00-2	2 – 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lead substance listed as REACH Candidate	CAS-No.: 7439-92-1 EC-No.: 231-100-4 EC Index-No.: 082-013-00-1	< 0,1	Repr. 1A, H360FD Lact., H362
Chromium	CAS-No.: 7440-47-3 EC-No.: 231-157-5	< 0,001	Not classified
cadmium (non-pyrophoric) substance listed as REACH Candidate (Cadmium)	CAS-No.: 7440-43-9 EC-No.: 231-152-8 EC Index-No.: 048-002-00-0	< 0,001	Acute Tox. 2 (Inhalation), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361fd STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
mercury	CAS-No.: 7439-97-6 EC-No.: 231-106-7 EC Index-No.: 080-001-00-0	< 0,0001	Repr. 1B, H360D Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
zinc chloride	CAS-No.: 7646-85-7 EC-No.: 231-592-0 EC Index-No.: 030-003-00-2	(5 ≤C ≤ 100) STOT SE 3, H335
Lead	CAS-No.: 7439-92-1 EC-No.: 231-100-4 EC Index-No.: 082-013-00-1	(0,03 ≤C ≤ 100) Repr. 1A, H360D

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

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and ef	fects, both acute and delayed
No additional information available	

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 powder. Foam. Water spray.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective eq	uipment and emergency procedures	
6.1.1. For non-emergency personnel No additional information available		
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 controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containme	ent and cleaning up	
Methods for cleaning up Other information	Mechanically recover the product.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 Hygiene measures	Ensure good ventilation of the work station.Do not eat, drink or smoke when using this product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Storage temperature

: Store in a well-ventilated place. Keep cool. : <70 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available

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Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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 Information on toxicological effects	
Acute toxicity (dermal)	Not classified Not classified Not classified
Chromium (7440-47-3)	
LC50 Inhalation - Rat	> 5,41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Lead (7439-92-1)	
LD50 oral rat	 > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

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Lead (7439-92-1)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5,05 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation 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
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Chromium (7440-47-3)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	≥ 0,0044 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
cadmium (non-pyrophoric) (7440-43-9)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
mercury (7439-97-6)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified
Smoke Alarm carbon zinc battery	
Viscosity, kinematic	Not applicable

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. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic) Not rapidly degradable	: Not classified
Lead (7439-92-1)	
LC50 - Fish [1]	1170 μg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	107 μg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
N and a distance of the foreground to an annual to be to	

No additional information available

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment	
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
cadmium (non-pyrophoric) (7440-43-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	DID	
ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping	g name	· · · · · ·			
Not applicable	Not applicable	Not applicable Not applicable Not applicable		Not applicable	
14.3. Transport hazard c	lass(es)		1		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group			·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental haz	ards	· · · · · · · · · · · · · · · · · · ·			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea Not applicable

Air transport

Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not applicable.

REACH Annex XIV (Authorisation List)

Not applicable.

REACH Candidate List (SVHC)

Contains one substance (s) from the list of candidate substances of REACH: Cadmium (EC 231-152-8, CAS 7440-43-9), Lead (EC 231-100-4, CAS 7439-92-1)

PIC Regulation (Prior Informed Consent)

Substances 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: cadmium (non-pyrophoric) (7440-43-9), mercury (7439-97-6)

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

France

Occupational diseases		
Code	escription	
RG 1	Conditions caused by lead and its compounds	
RG 2	Occupational diseases caused by mercury and its compounds	
RG 39	Occupational diseases caused by manganese dioxide	
RG 61	Occupational diseases caused by cadmium and its compounds	
RG 61 BIS	Bronchopulmonary cancer caused by the inhalation of dusts or fumes containing cadmium	

Germany

Employment restrictions	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) Storage class (LGK, TRGS 510)	 WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1). LGK 13 - Non-combustible solids.

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Joint storage table	:	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A	
		LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B	
		LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C	
		LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B	
		LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13	
Joint storage not permitted for	: 1	LGK 1, LGK 6	5.2, LGK 7.				
Joint storage with restrictions permitted for	: 1	LGK 4.1A, LG	6K 5.1C.				
Joint storage permitted for	: 1	: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2,					
	L	LGK 6.1A, LG	6.1B, LGK 6	6.1C, LGK 6.1D	, LGK 8A, LGK	8B, LGK 10, LGK 11, L	GK 12
		LGK 13, LGK					
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject	t of the Hazard	ous Incident Or	dinance (12. B	ImSchV)	
Netherlands							
ABM category	: 2	Z(1) - non bio	degradable su	bstances with h	azardous prop	erties for humans and th	ne
		environment (persistence)	carcinogenicit	y/ mutagenicity/	reprotoxicity/b	ioacumulative potential/	toxici
SZW-lijst van kankerverwekkende stoffen	: (cadmium (non-pyrophoric) is listed					
SZW-lijst van mutagene stoffen	: 1	None of the components are listed					
SZW-lijst van reprotoxische stoffen – Borstvoeding	: 0	cadmium (non-pyrophoric),Lead are listed					
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: 0	cadmium (nor	n-pyrophoric),L	ead are listed.			
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: 0	cadmium (nor	n-pyrophoric),L	.ead,mercury ar	e listed		
Denmark							
Danish National Regulations				Danish Working ed during use ar		Authorities regarding wor	rk with
Switzerland							
Storage class (LK)	: 1	NG - Non-haz	ardous				
15.2. Chemical safety assessment							

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	

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Abbreviations and acronyms:		
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	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
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	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H360D	May damage the unborn child.	
H360FD	May damage fertility. May damage the unborn child.	

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Full text of H- and EUH-statements:		
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H362	May cause harm to breast-fed children.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 1A	Reproductive toxicity, Category 1A	
Repr. 1B	Reproductive toxicity, Category 1B	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

The classification complies with

: ATP 12

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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 construed as guaranteeing any specific property of the product.