SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 02-Dec-2020

Revision Date 02-Dec-2020

Revision Number 1

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

1.1. Product identifierProduct NameBA2240T Battery PackSynonymsLithium-ion Battery Pack1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended useBatteryUses advised againstDo not short circuit or expose to temperatures higher than the maximum temperature rating specified by the manufacturer. Do not recharge, over charge or crush any cell or pack. Ensure cells and batteries are safely handled and stored. Review Section 7 completely

1.3. Details of the supplier of the safety data sheet

Importer	<u>Manufacturer</u>
EGO EUROPE GMBH	Nanjing Chervon Industry Co., Ltd.
Autenbachstraße 11	159 South Jiang Jun Rd. Jiangning
71711 Steinheim/Murr	Economic & Technical Development Zone
Germany	Nanjing, Jiangsu 211106 P.R. China
Tel: 0044 1494 957 514	Phone: +862552101133

before use

For further information, please contact

E-mail address

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1.4. Emergency telephone number

Emergency telephone

0044 1235 239 670 (Available 24/7)

Emergency telephone - §45 - (EC)1	272/2008
Europe	112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] This product is an article and is outside the scope of Regulation (EC) No 1272/2008

2.2. Label elements

Hazard statements Not classified

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No.	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
				[CLP]			
Lithium cobalt nickel oxide 113066-89-0	36	No data available	442-750-5	Acute Tox. 2 (H330) Skin Sens. 1 (H317) Carc. 1A (H350i) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	-	-
Copper 7440-50-8	24	No data available	231-159-6	Aquatic Chronic 2 (H411)	-	-	-
Graphite 7782-42-5	12	No data available	231-955-3	[C]	-	-	-
Aluminum 7429-90-5	5	No data available	231-072-3	Flam. Sol. 1 (H228) Water-react. 2 (H261)	-	-	-
Phosphate(1-), hexafluoro-, lithium 21324-40-3	2	No data available	244-334-7	Acute Tox. 3 (H301) Skin Corr. 1A (H314) Eye Dam. 1 (H318) STOT RE 1 (tooth, bone) (H372)	-	-	-

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

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

Acute Toxicity Estimate No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

First aid is upon rupture of sealed battery.

Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor or poison control centre immediately.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	Burning sensation. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.
4.3. Indication of any immediate me	dical attention and special treatment needed
Note to doctors	Treat symptomatically.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Use of water spray when fighting a lithium fire may be inefficient. However, copious amounts of water may be used to cool a battery fire and extinguish any surrounding combustible fires.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	No information available.
5.3. Advice for firefighters	
Specific/special fire-fighting measures	Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
SECTION 6: Accidental rel	ease measures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Wash thoroughly after handling.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	During a release, ensure the Personal Protection listed in Section 8 is worn. Neutralize any electrolyte contaminated surfaces with baking soda, soda lime or sodium bicarbonate. Transfer damaged battery and any clean up materials to a sealed container a neutralizing material as stated above. Ensure the container is properly labeled.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not crush, pierce, short circuit (+) and (-) battery terminals with conductive (metal) goods. Do not directly heat or solder. Do not throw into fire. Do not mix batteries of different types and brands. Do not mix new and used batteries. Keep batteries in non-conductive (plastic) trays. Cells or batteries that have been dropped or experience mechanical shock should be isolated and monitored for approximately 5 days to identify a possible internal short circuit and resulting fire. Jewelry, and all metal, should be removed before handling batteries to avoid short circuit. Do not breathe dust. Use personal protection equipment.
Handle in accordance with good industrial hygiene and safety practice.
cluding any incompatibilities
Elevated temperature (>60°C) can shorten battery life. Do not store in high humidity environments. Protect from moisture. Never stack heavy objects on top of battery boxes. Do not store near combustible materials. Keep batteries in original packaging until use and do not expose them to unnecessary or excessive handling.

7.3. Specific end use(s)

Specific use(s).

No information available

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Lithium cobalt nickel	-	H*	TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³
oxide		Respiratory	-	TWA: 0.1 mg/m ³	TWA: 0.5 mg/m ³
113066-89-0		sensitizer			STEL: 1 mg/m ³
					Skin Sensitisation
Copper	-	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³
7440-50-8		TWA: 0.1 mg/m ³	TWA: 1 mg/m ³		TWA: 1 mg/m ³
		STEL 4 mg/m ³	-		STEL: 2 mg/m ³
		STEL 0.4 mg/m ³			
Graphite	-	TWA: 5 mg/m ³	TWA: 2 mg/m ³	TWA: 5.0 mg/m ³	TWA: 4 mg/m ³
7782-42-5		STEL 10 mg/m ³	_	_	TWA: 10 mg/m ³
Aluminum	-	TWA: 10 mg/m ³	TWA: 1 mg/m ³	TWA: 10.0 mg/m ³	TWA: 10 mg/m ³
7429-90-5		STEL 20 mg/m ³	_	TWA: 1.5 mg/m ³	TWA: 4 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland

Lithium cobalt nickel oxide 113066-89-0	-	TWA: 0.05 mg/m ³ Ceiling: 0.1 mg/m ³ Ceiling: 0.25 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.01 mg/m ³	TWA: 0.1 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.01 mg/m ³ TWA: 0.02 mg/m ³
Copper 7440-50-8	-	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ Ceiling: 2 mg/m ³ Ceiling: 0.2 mg/m ³	TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.02 mg/m ³
Graphite 7782-42-5	-	TWA: 2.0 mg/m ³	TWA: 2.5 mg/m ³	TWA: 5 mg/m ³	TWA: 2 mg/m ³
Aluminum 7429-90-5	-	TWA: 10.0 mg/m ³	TWA: 5 mg/m ³ TWA: 2 mg/m ³	TWA: 10 mg/m ³ TWA: 4 mg/m ³	TWA: 1.5 mg/m ³
Phosphate(1-), hexafluoro-, lithium 21324-40-3	-	-	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	-
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Lithium cobalt nickel oxide 113066-89-0	-	TWA: 0.03 mg/m ³	*	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³	TWA: 0.01 mg/m ³ TWA: 0.02 mg/m ³
Copper 7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	-	TWA: 0.01 mg/m ³ Peak: 0.02 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 0.1 mg/m ³ TWA: 0.01 mg/m ³ STEL: 0.2 mg/m ³
Graphite 7782-42-5	TWA: 2 mg/m ³	TWA: 1.25 mg/m ³ TWA: 10 mg/m ³	TWA: 0.3 mg/m ³ TWA: 4 mg/m ³ Peak: 2.4 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m ³
Aluminum 7429-90-5	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1.25 mg/m ³ TWA: 10 mg/m ³	TWA: 4 mg/m ³ TWA: 1.5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 1 mg/m ³
Phosphate(1-), hexafluoro-, lithium 21324-40-3	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³ *	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ *
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Lithium cobalt nickel oxide 113066-89-0	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ Sensitizer	-	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³	Sensitizer TWA: 0.05 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ Sensitizer TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ STEL: 0.6 mg/m ³	-	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8 Graphite 7782-42-5	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ Sensitizer TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ STEL: 0.6 mg/m ³ TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ TWA: 2 mg/m ³	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 5 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ Sensitizer TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ STEL: 0.6 mg/m ³ TWA: 2 mg/m ³ STEL: 6 mg/m ³ STEL: 3 mg/m ³	-	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ TWA: 2 mg/m ³	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 5 mg/m ³ TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5 Phosphate(1-), hexafluoro-, lithium 21324-40-3	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ Sensitizer TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 6 mg/m ³ TWA: 1 mg/m ³ STEL: 6 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ STEL: 7.5 mg/m ³	-	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 5 mg/m ³ TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5 Phosphate(1-), hexafluoro-, lithium 21324-40-3 Chemical name	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ Sensitizer TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.6 mg/m ³ TWA: 2 mg/m ³ STEL: 6 mg/m ³ STEL: 3 mg/m ³ STEL: 3 mg/m ³ STEL: 7.5 mg/m ³	- - - - Malta	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ -	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 5 mg/m ³ TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5 Phosphate(1-), hexafluoro-, lithium 21324-40-3 Chemical name Lithium cobalt nickel oxide 113066-89-0	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ SEnsitizer TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ TWA: 2 mg/m ³ STEL: 6 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ TWA: 2.5 mg/m ³ STEL: 7.5 mg/m ³ Luxembourg	- - - - - Malta -	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ Netherlands	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.06 mg/m ³	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 5 mg/m ³ TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.25 mg/m ³ TWA: 0.02 mg/m ³
Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5 Phosphate(1-), hexafluoro-, lithium 21324-40-3 Chemical name Lithium cobalt nickel oxide 113066-89-0 Copper 7440-50-8	TWA: 0.02 mg/m ³ TWA: 0.5 mg/m ³ STEL: 0.3 mg/m ³ STEL: 1.5 mg/m ³ STEL: 1.5 mg/m ³ TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³ STEL: 0.6 mg/m ³ TWA: 2 mg/m ³ STEL: 6 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ TWA: 2.5 mg/m ³ STEL: 7.5 mg/m ³ Luxembourg -	- - - - Malta -	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ Netherlands - TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 2 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.02 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.1 mg/m ³ STEL: 3 mg/m ³ STEL: 0.3 mg/m ³	Sensitizer TWA: 0.05 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 5 mg/m ³ TWA: 5 mg/m ³ TWA: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.25 mg/m ³ TWA: 0.02 mg/m ³

					STEL:	4 mg/m ³	
					STEL:	8 mg/m ³	
Aluminum		-	-	-	TWA:	5 mg/m ³	TWA: 2.5 mg/m ³
7429-90-5					STEL:	10 mg/m ³	TWA: 1.2 mg/m ³
Phosphate(1-),		-	-	-		-	TWA: 2 mg/m ³
nexatiuoro-, litnium 21324-40-3							
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Lithium cobalt nickel	TWA	A: 0.2 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³		-	TWA: 0.02 mg/m ³
oxide	TWA	: 0.02 mg/m ³	STEL: 0.5 mg/m ³	Sensitizer			TWA: 0.2 mg/m ³
113066-89-0		0.0.0.0.0.0.0.0.0.0.0.0		T)A/A . 4			T)A(A, O, A, m, m/m, 2
Copper 7440-50-8		A: 0.2 mg/m ³	STEL: 0.2 mg/m ³	$TWA: 1 mg/m^3$ $TWA: 0.2 mg/m^3$		-	1 WA: 0.1 mg/m ³
		A. Thighli	STEL: 0.2 mg/m ³	TWA. 0.2 mg/m			
Graphite	TW	'A: 2 mg/m ³	TWA: 2 mg/m ³	-		-	TWA: 2 mg/m ³
7782-42-5		-					
Aluminum	TW	A: 10 mg/m ³	TWA: 3 mg/m ³	TWA: 4 mg/m ³	-		TWA: 10 mg/m ³
7429-90-5			$STEL \cdot 10 \text{ mg/m}^3$	TWA: 1.5 mg/m ³			
			STEL: 3 mg/m ³				
Phosphate(1-),	TWA	A: 2.5 mg/m ³	-	TWA: 2.5 mg/m ³		-	-
hexafluoro-, lithium							
21324-40-3		C.	wadan	Switzerland		Lini	tod Kingdom
Lithium ashalt nickal as		5	weden	Switzenand		i Uni	lea Kingaom
	vide	NGV-01m	$a/m^3 NGV \cdot 0.02$	TWA: 0.05 mg/n	n ³		$1 \text{ mg/m}^3 \text{ TWA} \cdot 0.5$
113066-89-0	kide	NGV: 0.1 m n	ig/m ³ NGV: 0.02 ng/m ³	TWA: 0.05 mg/n H*	n ³	TWA: 0.7	1 mg/m ³ TWA: 0.5 mg/m ³
113066-89-0	xide	NGV: 0.1 m n	ng/m ³ NGV: 0.02 ng/m ³ *	TWA: 0.05 mg/n H*	n ³	TWA: 0.7	1 mg/m ³ TWA: 0.5 mg/m ³ Sk*
113066-89-0	kide	NGV: 0.1 m n Se	ng/m³ NGV: 0.02 ng/m³ * nsitizer	TWA: 0.05 mg/n H*	n ³	TWA: 0.7 Capa	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing
113066-89-0	kide	NGV: 0.1 m n Se	g/m ³ NGV: 0.02 ng/m ³ * nsitizer	TWA: 0.05 mg/n H*	n ³	TWA: 0.7 Capa occup	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing pational asthma
Copper 7440-50-8	kide	NGV: 0.1 m n Se NGV: (ng/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m	n ³ 1 ³	TWA: 0. Capa occup TW	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing vational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³
Copper 7440-50-8	kide	NGV: 0.1 m n Se NGV: (ng/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m	n ³ 3 1 ³	TWA: 0. Capa occup TW TW STE	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing pational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³
Copper 7440-50-8	kide	NGV: 0.1 m n Se NGV: (ng/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m	n ³ 3 1 ³	TWA: 0. Capa occup TW TW STE ST	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing bational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³
Copper 7440-50-8	xide	NGV: 0.1 m n Se NGV: (ng/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m	n ³ 1 ³ 3	TWA: 0. Capa occup TW STE ST TW	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing bational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 10 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5	xide	NGV: 0.1 m n Se NGV: (g/m ³ NGV: 0.02 ng/m ³ nsitizer D.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m TWA: 5 mg/m ³	n ³ 1 ³ 1 ³	TWA: 0. Capa occup TW TW STE ST TW ST	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing vational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 10 mg/m ³ VA: 4 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5	xide	NGV: 0.1 m n Se NGV: (ng/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m ³	n ³ 1 ³ 1 ³	TWA: 0. Capa occup TW TW STE ST TW STE STF	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing pational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 10 mg/m ³ VA: 4 mg/m ³ EL: 30 mg/m ³ EL: 12 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5	xide	NGV: 0.1 m n Se NGV: (g/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m ³ TWA: 5 mg/m ³	n ³ 1 ³ 1 ³	TWA: 0. Capa occup TW TW STE ST TW TW STE STE STE	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing bational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 10 mg/m ³ EL: 30 mg/m ³ EL: 12 mg/m ³ VA: 10 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5	xide	NGV: 0.1 m Se NGV: (NGV NGV NGV	g/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³ - : 5 mg/m ³ : 2 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m ³ TWA: 3 mg/m ³	n ³ 1 ³ 1 ³	TWA: 0. Capa occup TW STE ST TW TW STE STE STE TW	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing vational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 4 mg/m ³ EL: 12 mg/m ³ VA: 10 mg/m ³ VA: 10 mg/m ³ VA: 4 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5	xide	NGV: 0.1 m Se NGV: (NGV NGV	g/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³ - : 5 mg/m ³ : 2 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m ³ TWA: 3 mg/m ³	n ³ 1 ³ 1 ³	TWA: 0. Capa occup TW STE ST ST TW STE STE TW STE	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing vational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 4 mg/m ³ EL: 30 mg/m ³ VA: 4 mg/m ³ VA: 4 mg/m ³ EL: 10 mg/m ³ EL: 30 mg/m ³ EL: 30 mg/m ³ EL: 30 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5	xide	NGV: 0.1 m n Se NGV: (NGV NGV	g/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³ - : 5 mg/m ³ : 2 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m ³ TWA: 3 mg/m ³	n ³ 1 ³ 1 ³	TWA: 0. Capa occup TW TW STE ST TW STE STE TW STE STE	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing pational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 2 mg/m ³ VA: 4 mg/m ³ EL: 30 mg/m ³ EL: 12 mg/m ³ VA: 4 mg/m ³ EL: 10 mg/m ³ VA: 4 mg/m ³ EL: 30 mg/m ³ EL: 30 mg/m ³
Copper 7440-50-8 Graphite 7782-42-5 Aluminum 7429-90-5 Phosphate(1-), hexafluo lithium	xide	NGV: 0.1 m n Se NGV: (NGV NGV	g/m ³ NGV: 0.02 ng/m ³ nsitizer 0.01 mg/m ³ - : 5 mg/m ³ : 2 mg/m ³	TWA: 0.05 mg/n H* TWA: 0.1 mg/m STEL: 0.2 mg/m TWA: 2.5 mg/m ³ TWA: 3 mg/m ³ -	n ³ 1 ³ 3	TWA: 0. Capa occup TW STE ST TW TV STE STE TW STE STE	1 mg/m ³ TWA: 0.5 mg/m ³ Sk* able of causing bational asthma VA: 1 mg/m ³ A: 0.2 mg/m ³ EL: 0.6 mg/m ³ EL: 0.6 mg/m ³ VA: 10 mg/m ³ VA: 4 mg/m ³ EL: 30 mg/m ³ VA: 10 mg/m ³

Biological occupational exposure limits .

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Lithium cobalt nickel	-	10 µg/L (urine -	-	-	-
oxide		spontaneous urine			
113066-89-0		after end of work			
		day, at the end of a			
		work week/end of			
		the shift)			
		(-) 7 µg/L (urine -			
		spontaneous urine			
		after end of work			
		day, at the end of a			
		work week/end of			
		the shift)			

Aluminum	-	60 J	ıg/g Creatinine		-	200 µg/L - ur	ine	-
7429-90-5		(uri	ne - Aluminum			(Aluminum) - a	t the	
		dav	at the end of a			end of the work	snin	
		wor	k week/end of					
			the shift)					
Chamical name	Denmerk		(-) Finland	Гие		Correction	_	
Lithium cohalt nickel	Denmark		Finiand	Fra		Germany	(for	Germany MAK
oxide	_			(Cobalt)	- end of	lona-term	(101	_
113066-89-0				shift at	end of	exposures: at	the	
				work	week	end of the shift	after	
				0.001 mg	/L - blood	several shifts)	urine	
				shift at	end of	long-term		
				work	week	exposures: at	the	
						end of the shift	after	
						several shifts)	urine	
						οng-term	(101	
						exposures: at	the	
						end of the shift	after	
						several shifts)	urine	
Aluminum	-		-		-	50 µg/g Creati	nine	50 µg/g Creatinine
7429-90-3						for long-terr	n	for long-term
						exposures: at	the	exposures: at the
						end of the shift	after	end of the shift after
						several shift	S)	several shifts)
						BAT (for long-t	erm	
						exposures: at	the	
						end of the shift	after	
						several shifts)	urine	
						BAR (for long-	term	
						exposures: at	the	
						end of the shift	after	
Dhoonhoto(1)				2 ma/a or	ootinino	several shifts)	urine	
hexafluoro-, lithium	-		-	urine (Flu	uorides) -	-		-
21324-40-3				beginnin	g of shift			
				10 mg/g c	reatinine -			
				urine (Flu	Jorides) -			
Chemical name	Hungary		Irelan	d		Italy		Italy REL
Lithium cobalt nickel	-		3 µg/L (urine	- Nickel		-	15 µ	g/L - urine (Cobalt) -
oxide			after several co	onsecutive			er	nd of shift at end of
113066-89-0 Phosphato(1)	7 ma/a Croatinina (u	rino	working s	hifts)			2 m	WORKWEEK
hexafluoro-, lithium	Fluoride end of sh	ift)	-			-	(Flue	orides) - prior to shift
21324-40-3	4 mg/g Creatinine (u	rine -					3 mg	g/g Creatinine - urine
	Fluoride prior to ne	ext					(Flu	orides) - end of shift
	shift)	inina						
	(urine - Fluoride en	nine d of						
	shift)							
	24 µmol/mmol Creat	inine						
	(urine - Fluoride pric	or to						
Chemical name	Latvia		Luxembo	oura	R	omania		Slovakia
Aluminum	-		-		200 เ	ıg/L - urine	60 µ	g/g creatinine - urine

7429-90-5			(Aluminum) - end of shift	(Aluminum) - not critical
Phosphate(1-),	-	-	5 mg/g Creatinine - urine	-
hexafluoro-, lithium			(Fluorine) - end of shift	
21324-40-3				
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Aluminum	200 µg/L - urine	-	60 μg/g creatinine (urine -	-
7429-90-5	(Aluminum) - at the end		Aluminum no restrictions)	
	of the work shift			

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment	
Eye/face protection	None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, chemical splash goggles and a face shield are recommended. Eye protection must conform to standard EN 166.
Hand protection	None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, chemically resistant gloves are recommended. Gloves must conform to standard EN 374.
Skin and body protection	None required for normal handling of the finished product. If necessary to handle damaged product where exposure to the electrolyte is a possibility, a chemically resistant apron is recommended. (EN ISO 6529).
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Odour threshold	Solid No information available Odourless No information available	
Property_	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability Flammability Limit in Air	No data available	None known None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point Autoignition temperature Decomposition temperature	No data available No data available	None known None known None known

pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

None under normal use conditions.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal use conditions.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents. Under normal use, batteries are not incompatible. The electrolyte is incompatible with:

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of toxic/corrosive gases and vapours.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information Exposure is not expected for product under normal conditions of use. In the event of an

	exposure to electrolyte the following toxicological information is provided:
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. (based on components).
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms related to the physical, c	hemical and toxicological characteristics
Symptoms	Burning. May cause blindness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity

The following values are calculated	based on chapter	3.1 of the GHS document:
ATEmix (oral)	80,137.00 mg/kg	
ATEmix (inhalation-dust/mist)	0.05 mg/l	

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Graphite	-	-	> 2000 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name		European Union
Lithium cobalt nickel oxide		Carc. 1A
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Aspiration hazard	No information available.	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
Endocrine disrupting properties	No information available.	

11.2.2. Other information

Other adverse effects

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Avoid release to the environment. Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity

Contains 64 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Copper	EC50: 0.0426 - 0.0535mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.031 - 0.054mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 0.0068 - 0.0156mg/L (96h, Pimephales promelas) LC50: <0.3mg/L (96h, Pimephales promelas) LC50: =0.2mg/L (96h, Pimephales promelas) LC50: =0.052mg/L (96h, Oncorhynchus mykiss) LC50: =1.25mg/L (96h, Lepomis macrochirus) LC50: =0.3mg/L (96h, Cyprinus carpio) LC50: =0.8mg/L (96h, Cyprinus carpio) LC50: =0.112mg/L (96h, Poecilia reticulata)	-	EC50: =0.03mg/L (48h, Daphnia magna)
Graphite	-	LC50: >100mg/L (96h, Danio rerio)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Copper	The substance is not PBT / vPvB PBT assessment does
	not apply
Graphite	The substance is not PBT / vPvB PBT assessment does
	not apply
Aluminum	The substance is not PBT / vPvB PBT assessment does
	not apply
Phosphate(1-), hexafluoro-, lithium	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Waste codes / waste designations according to EWC / AVV	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

NL	Leter de la ferra All Philippe de Maria en
Note:.	Lithium cells and batteries: Lithium cells and batteries must successfully pass the tests defined in "UN Manual of Tests and Criteria", Section 38.3 and may require they be manufactured under a Quality Management Program. Lithium Metal and Lithium Ion cells and batteries, when shipped by themselves (not in or with equipment) are forbidden as cargo on passenger aircraft and must be marked as "Cargo Air Only" if shipped by air (they must be marked "Cargo Air Only" for all modes of DOT transport). Lithium Ion cells and batteries, when shipped by themselves (not in or with equipment) by air must be shipped at or below 30% full charge. Note: Some regulations require a summary of test results and/or a copy of the Quality Management Programs be made available for Lithium cells and batteries
IMDG	
14.1 UN number or ID number	UN3480
14.2 UN proper shipping name	LITHIUM ION BATTERIES
14.3 Transport nazard class(es)	9
Description	UN3480 LITHIUM ION BATTERIES(Copper) 9 Marine pollutant
14.5 Environmental hazards	Yes
Marine pollutant	P
14.6 Special Precautions for Users	
Special Provisions	188, 230,310, 348, 376, 377, 384, 387
EmS-No	F-A, S-I
according to IMO instruments	No Information available
RID	
14.1 UN number	UN3480
14.2 UN proper shipping name	LITHIUM ION BATTERIES
14.3 Transport hazard class(es)	9
Subsidiary nazard class	A
14.4 Packing group	5A
Description	UN3480. LITHIUM ION BATTERIES. 9 (A). Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special Precautions for Users	
Special Provisions	None
Classification code	IV14

ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) Subsidiary class Labels 14.4 Packing group	UN3480 LITHIUM ION BATTERIES 9 A 9A
Description 14.5 Environmental hazards 14.6 Special Precautions for Users	UN3480, LITHIUM ION BATTERIES, 9 (A), Environmentally Hazardous Yes
Special Provisions Classification code Tunnel restriction code	188, 230, 310, 348, 376, 377, 387, 636 M4 (E)
IATA 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) Subsidiary hazard class 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special Precautions for Users Special Provisions FRG Code	UN3480 Lithium ion batteries 9 A UN3480, Lithium ion batteries, 9 (A) Yes A88, A99, A154, A164, A183, A201, A206, A213 A331, A334, A802 9F
Note:	None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)			
Chemical name	French RG number	Title	
Graphite	RG 16	-	
7782-42-5	RG 25		
Aluminum	RG 32	-	
7429-90-5	RG 16,RG 16bis		

Germany

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Carcinogens	Reproductive Toxins
Lithium cobalt nickel oxide	Present	-	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Lithium cobalt nickel oxide - 113066-89-0	28.	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories	
TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend:

 TSCA
 - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL
 - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS
 - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 ENCS
 - Japan Existing and New Chemical Substances

 IECSC
 - China Inventory of Existing Chemical Substances

 KECL
 - Korean Existing and Evaluated Chemical Substances

 PICCS
 - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

- H228 Flammable solid
- H261 In contact with water releases flammable gas
- H317 May cause an allergic skin reaction
- H330 Fatal if inhaled
- H350i May cause cancer by inhalation
- 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
- H411 Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet