



Lithium Ion Rechargeable Battery Pack

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Canada Hazardous Products Regulation

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

1.1. Product identifier

Product form : Article
Product name : Lithium Ion Rechargeable Battery Pack

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

Use of the substance/mixture : Lithium battery

1.3. Details of the supplier of the safety data sheet

Nest Labs, Inc.
3400 Hillview Ave.
Palo Alto, California 94304 - United States of America
T +1 (650) 331-1127
<http://nest.com>

1.4. Emergency telephone number

Emergency number : +1 (703) 527-3887 / +1 (800) 424-3887
CHEMTREC (24 HOURS)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification : Damaged battery may release : Organic. Hazardous vapours may be released. Flammable vapours are released.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Lithium Cobalt Oxide	(CAS No) 12190-79-3	15 - 40	Repr. 2, H361
nickel	(CAS No) 7440-02-0	3 - 15	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Propylene Carbonate	(CAS No) 108-32-7	0 - 15	Eye Irrit. 2A, H319
Ethylene Carbonate	(CAS No) 96-49-1	0 - 15	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 STOT RE 2, H373
lithium hexafluorophosphate(1-)	(CAS No) 21324-40-3	0 - 5	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 1, H372
Carbon black	(CAS No) 1333-86-4	0 - 2	Carc. 2, H351

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : If vapour is released : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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- First-aid measures after skin contact : In normal conditions of use, the components cannot be released because of the form in which the article or preparation is placed on the market. If contents are released: Wash with plenty of soap and water.
- First-aid measures after eye contact : In normal conditions of use, the components cannot be released because of the form in which the article or preparation is placed on the market. If contents are released: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Get immediate medical advice/attention.
- First-aid measures after ingestion : In normal conditions of use, the components cannot be released because of the form in which the article or preparation is placed on the market. If contents are released: Drink plenty of water, Do NOT induce vomiting, Get immediate medical attention.

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

- Symptoms/injuries : No significant signs or symptoms indicative of any health hazard are expected to occur. If contents are released: Suspected of causing cancer., Suspected of damaging fertility, May cause damage to organs ({}|message=<or state all organs affected, if known>|filter=(_)?ORGAN_+}) through prolonged or repeated exposure ({}|message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>|filter=(_)?EXP_ROUTE_+}).
- Symptoms/injuries after inhalation : If contents are released: Corrosive to the respiratory tract.
- Symptoms/injuries after skin contact : If contents are released: Burns.
- Symptoms/injuries after eye contact : If contents are released: Causes serious eye damage.
- Symptoms/injuries after ingestion : If contents are released: Burns. Irritation of the respiratory tract and the other mucous membranes.

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 : Class D. Lith-X powder. Dry Lithium Chloride. Graphite. Carbon dioxide.
- Unsuitable extinguishing media : Do not use water. Carbon dioxide. Soda extinguisher. sand. Class A. Class B. Class C.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : To our knowledge, the product does not present any particular risk, under normal conditions of use. Burning produces irritating, toxic and noxious fumes.
- Explosion hazard : Keep away from ignition sources.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses. Do not use extinguishing media containing water. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves resistant to chemical penetration.
- Emergency procedures : Stop leak, if possible without risk.

6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves resistant to chemical penetration.
- Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Damaged batteries should be placed in a sealed plastic bag or a plastic-lined metal container.
- Methods for cleaning up : If contents are released: Liquid spill: take up in dry sand/earth/vermiculite. Sweep or shovel spills into appropriate container for disposal.

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6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Do not disassemble. Do not store near food, foodstuffs, drugs, or potable water supplies.
Incompatible products : Oxidizer. Water. Moisture.
Incompatible materials : Heat sources.
Storage temperature : 0 - 45 °C
Heat and ignition sources : Keep away from heat, sparks and flame.
Prohibitions on mixed storage : Keep away from incompatible materials.
Storage area : Store in dry, cool, well-ventilated area. Keep out of reach of children. Keep out of direct sunlight.

7.3. Specific end use(s)

temperature controls.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lithium Ion Rechargeable Battery Pack		
ACGIH	Not applicable	
OSHA	Not applicable	
Lithium Cobalt Oxide (12190-79-3)		
ACGIH	ACGIH TWA (mg/m ³)	0.02 mg/m ³ as Co
OSHA	Not applicable	
nickel (7440-02-0)		
ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (inhalable) 0.1 mg/m ³ (soluble) 1.5 mg/m ³ (inhalable fraction)
OSHA	Not applicable	
lithium hexafluorophosphate(1-) (21324-40-3)		
ACGIH	Not applicable	
OSHA	Not applicable	
Carbon black (1333-86-4)		
ACGIH	ACGIH TWA (mg/m ³)	3.5 mg/m ³
ACGIH	Remark (ACGIH)	Bronchitis
OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³
Propylene Carbonate (108-32-7)		
ACGIH	Not applicable	
OSHA	Not applicable	
Ethylene Carbonate (96-49-1)		
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls

Appropriate engineering controls : Protect from moisture.

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Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: None under normal use. If contents are released: Wear suitable gloves resistant to chemical penetration.
Eye protection	: None under normal use. If contents are released: Chemical goggles or safety glasses.
Respiratory protection	: None under normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur. If contents are released: Reacts violently with water.

10.4. Conditions to avoid

Release of contents. Heat. Moisture. Avoid shock and friction.

10.5. Incompatible materials

If contents are released: Strong oxidizers. Water. Organic materials. Strong reducing agents. metals.

10.6. Hazardous decomposition products

If contents are released: Sulphur oxides. hydrogen chloride. Hydrogen. Corrosive vapours. Thermal decomposition generates : Hydrogen fluoride. Carbon oxides (CO, CO₂). Aluminium. Lithium. copper. cobalt. Contact with water liberates extremely flammable gases.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact
Acute toxicity : Not classified

Lithium Cobalt Oxide (12190-79-3)	
LD50 oral rat	> 5000 mg/kg female
LD50 dermal rat	> 2000 mg/kg

nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg OECD Guideline 401
LC50 inhalation rat (mg/l)	> 10.2 mg/l/4h No effects observed

lithium hexafluorophosphate(1-) (21324-40-3)	
LD50 oral rat	300 mg/kg female
ATE US (oral)	300.000 mg/kg bodyweight

Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m ³ 4 h

Ethylene Carbonate (96-49-1)	
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	500.000 mg/kg bodyweight

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.

nickel (7440-02-0)	
NOAEL (chronic, oral, animal/male, 2 years)	0.4 mg/kg bodyweight OECD 451 (Carcinogenicity Studies). Adrenal gland pheochromocytomas (benign and malignant) were significantly increased in exposed male.
NOAEL (chronic, oral, animal/female, 2 years)	0.4 mg/kg bodyweight OECD 451 (Carcinogenicity Studies). The incidence of combined (adenoma and carcinoma) cortical tumors among 0.4 mg Ni/m ³ females, although statistically higher compared to the concurrent controls, falls within the historical control range; therefore, in the present study, this tumor is of uncertain relationship to nickel metal exposure.
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust
National Toxicology Program (NTP) Status	Not listed in carcinogenicity class

Reproductive toxicity : Not classified.
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified.

nickel (7440-02-0)	
LOAEL (inhalation, rat,dust/mist/fume, 90 days)	0.1 mg/l/6h/day OECD Guideline 451
NOAEL (oral, rat, 90 days)	< 4 mg/kg bodyweight/day OECD Guideline 412. increased incidence of granulomatous inflammation and mucoid exudate.
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	> 10.2 mg/l/6h/day

lithium hexafluorophosphate(1-) (21324-40-3)	
Additional information	bone

Aspiration hazard : Not classified
Symptoms/injuries after inhalation : If contents are released: Corrosive to the respiratory tract.
Symptoms/injuries after skin contact : If contents are released: Burns.
Symptoms/injuries after eye contact : If contents are released: Causes serious eye damage.

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Symptoms/injuries after ingestion : If contents are released: Burns. Irritation of the respiratory tract and the other mucous membranes.
Other information : Keep the container hermetically sealed.

SECTION 12: Ecological information

12.1. Toxicity

Lithium Cobalt Oxide (12190-79-3)	
LC50 fish 1	275 mg/l 96 h
nickel (7440-02-0)	
LC50 fish 1	15.3 mg/l Oncorhynchus mykiss (as nickel chloride)
LOEC (chronic)	0.12 mg/l as Nickel(II) chloride hexahydrate
NOEC (chronic)	0.057 mg/l as Nickel(II) chloride hexahydrate

12.2. Persistence and degradability

nickel (7440-02-0)	
Persistence and degradability	Not established.
Carbon black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

nickel (7440-02-0)	
Bioconcentration factor (BCF REACH)	> 600
Bioaccumulative potential	Expected to bioaccumulate. Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : wastes from electrical and electronic equipment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3480 Lithium ion battery, 9, II
UN-No.(DOT) : UN3480
Proper Shipping Name (DOT) : Lithium ion battery
Transport hazard class(es) (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT) : II - Medium Danger

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN 3480 LITHIUM ION BATTERIES, 9, II, (E)
Packing group (ADR) : II

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Class (ADR) : 9 - Miscellaneous dangerous substances and articles
Classification code (ADR) : M4
Danger labels (ADR) : 9 - Miscellaneous dangerous substances and articles



Classification code (ADR) : M4
Special provisions (ADR) : 188, 230, 310, 348, 636
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P903, P903a, P903b
Transport category (ADR) : 2
Tunnel restriction code (ADR) : E

Transport by sea

UN-No. (IMDG) : 3480
Proper Shipping Name (IMDG) : LITHIUM ION BATTERIES
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG) : II - substances presenting medium danger
Special provisions (IMDG) : 188, 230, 310, 348, 957
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P903
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-I
Stowage category (IMDG) : A

Air transport

UN-No. (IATA) : 3480
Proper Shipping Name (IATA) : Lithium ion batteries
Class (IATA) : 9 - Miscellaneous Dangerous Goods
PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : See 965
PCA max net quantity (IATA) : See 965
CAO packing instructions (IATA) : See 965
CAO max net quantity (IATA) : See 965
Special provisions (IATA) : A88, A99, A154, A164, A183
ERG code (IATA) : 9F

SECTION 15: Regulatory information

15.1. US Federal regulations

Lithium Cobalt Oxide (12190-79-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

nickel (7440-02-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

lithium hexafluorophosphate(1-) (21324-40-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Carbon black (1333-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Propylene Carbonate (108-32-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ethylene Carbonate (96-49-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Lithium Cobalt Oxide (12190-79-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

nickel (7440-02-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

lithium hexafluorophosphate(1-) (21324-40-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Propylene Carbonate (108-32-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Ethylene Carbonate (96-49-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Lithium Cobalt Oxide (12190-79-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

nickel (7440-02-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

lithium hexafluorophosphate(1-) (21324-40-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Carbon black (1333-86-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Propylene Carbonate (108-32-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Ethylene Carbonate (96-49-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

National regulations

nickel (7440-02-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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Carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

15.3. US State regulations

nickel (7440-02-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

Carbon black (1333-86-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

nickel (7440-02-0)

U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Right to Know List of Hazardous Chemicals
U.S. - Pennsylvania - List of Hazardous Substances

Carbon black (1333-86-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Indication of changes	: GHS classification information.
Data sources	: ACGIH (American Conference of Government Industrial Hygienists). Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
Abbreviations and acronyms	: CLP: Classification, Labelling, Packaging. CFR: United States Code of Federal Regulations. GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). OSHA: Occupational Safety & Health Administration.

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Full text of H-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

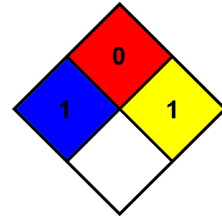
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



Redstone SDS USCAN (GHS) for Nest Labs

SDS prepared by:

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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