



# Nest Learning Thermostat, Name TBD

## Safety Data Sheet

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

according to Canada Hazardous Products Regulation

Date of issue: 04/03/2015

Version: 1.0

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

#### 1.1. Product identifier

Product form : Article  
Product name : Nest Learning Thermostat, Name TBD

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

Use of the substance/mixture : temperature controls

#### 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-ion Polymer Battery			Not classified

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.  
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.

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### 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.
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.

### 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.
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#### 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.

### 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.

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Storage temperature	: -32 - 60 °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

Nest Learning Thermostat, Name TBD	
ACGIH	Not applicable
OSHA	Not applicable

Lithium-ion Polymer Battery	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Appropriate engineering controls	: Protect from moisture.
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	: 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	: Colourless.
Odour	: Odourless.
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

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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, CO<sub>2</sub>). Aluminium. Lithium. copper. cobalt. Contact with water liberates extremely flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

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

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

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.

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

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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### 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 : UN3481 Lithium batteries, contained in equipment, 9, II  
UN-No.(DOT) : UN3481  
Proper Shipping Name (DOT) : Lithium batteries, contained in equipment  
Transport hazard class(es) (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140  
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



#### Additional information

- Other information : No supplementary information available.

#### ADR

- Transport document description : UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, 9, II, (E)  
Packing group (ADR) : II  
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, 348, 636, 360  
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) : 3481  
Proper Shipping Name (IMDG) : LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT  
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles  
Packing group (IMDG) : II - substances presenting medium danger  
Special provisions (IMDG) : 188, 230, 348, 360, 957  
Limited quantities (IMDG) : 0  
Excepted quantities (IMDG) : E0  
Packing instructions (IMDG) : P903  
EmS-No. (Fire) : F-A

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EmS-No. (Spillage) : S-I  
Stowage category (IMDG) : A

### Air transport

UN-No.(IATA) : 3481  
Proper Shipping Name (IATA) : Lithium ion batteries contained in equipment  
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) : 967  
PCA max net quantity (IATA) : 5kg  
CAO packing instructions (IATA) : 967  
CAO max net quantity (IATA) : 35kg  
Special provisions (IATA) : A48, A99, A154, A164, A181, A185  
ERG code (IATA) : 9F

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### 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

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

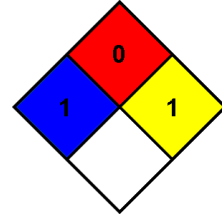
Indication of changes : GHS classification information.  
Data sources : ACGIH (American Conference of Government Industrial Hygienists).  
Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.  
National Fire Protection Association; Fire Protection 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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- 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:** The Redstone Group, LLC.  
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Suite 206  
Dublin, Ohio, USA 43016  
614.923.7472  
[www.redstonegrp.com](http://www.redstonegrp.com)

*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*