Material Safety Data Sheet (MSDS)

For

Personal Alarm

Applicant:	NINGBO HI-TECH ZONE INNO TECHNOLOGY CO., LTD.
Address:	4F, Block 1, Powerlong Plaza, No.525 Yangfan Road, Hi-Tech Zone, Ningbo, China
Prepared by:	Ningbo Hatek Co., Ltd.
Address:	6F, No. 65, Mujin Road, National Hi-Tech Zone, Ningbo, Zhejiang 315013, China.
Tel:	+86-0574-87171888
Fax:	/
Requested	As per request, the contents and formats of the MSDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.

Signed for and on behalf of
Ningbo Hatek Co., Ltd

Milse Xie
Laboratory Manager

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Section 1 - Chemical Product and Company Identification

Product Name: Personal Alarm
Model No.: IN06G
Tel: +86-574-87914443
Fax: +86-574-87911180
Chemical Uses: No toxicity, no irritation

Section 2 –Hazards Identification

2.1 Classification of the substance or mixture

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

In accordance with Regulation (EC) No 1272/2008 (CLP) ,Regulation (EU) 2015/830 and Regulation (EU) 2020/878 is divided into the following hazard category.

2.2Label elements

Labeling according to Regulation（EC）No. 1272/2008

Hazard pictograms:



GHS07 GHS09

Classification according to GHS

Acute toxicity, oral (4)
Skin corrosion/irritation (2)
Serious eye damage/eye irritation (2A)
Specific target organ toxicity, single exposure; Respiratory tract irritation (3) Hazardous to the aquatic environment, long-term hazard (2)

Hazard statements:

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

Prevention:

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.
P264 Wash skin and clothing thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

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P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection. Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty water.
P321 Specific treatment (See additional emergency instructions).
P333 + P313 If skin irritation or rash occurs: Get medical advice.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 TF IN EYES: Rinse cautiously with water for several minutes. Remove contact, lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER, if you feel unwell.
P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

Disposal:

P501 Send contents to approved waste treatment plants.

2.3 Other hazards:

Physical and chemical hazards: See Section 10

Human health hazards: See Section 11

Environmental hazards: See Section 12

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Section 3 – Composition/Information on Ingredient

Chemical Name		CAS No.	Composition (in% by weight)
ABS		25155-30-0	39%
LR44 battery	Manganese dioxide	1313-13-9	21%
	Zinc	7440-66-6	
	Graphite	7782-42-5	
	Potassium hydroxide	1310-58-3	
	Cadmium	7440-43-9	
	Mercury	7439-97-6	
	Lead	7439-92-1	
	Iron	7439-89-6	
LED		/	1%
PCBA		/	15%
copper		/	3%
PVC		9002-86-2	1%
iron		7439-89-6	20%

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Section 4 - First Aid Measures

After skin contact: Clean with soapy water.

After eye contact: Rinse opened eye for several minutes under running water.

After ingestion: If swallowed, dilute with water and induce vomiting. Never give fluids or induce vomiting to an unconscious person or person having convulsions. Seek medical attention immediately in this case.

Section 5 – Fire and Explosion Hazard Data

Extinguishing media: Small exergy CO_2, dry powder fire extinguishers, sand or clay, fire foam fire extinguisher, if involving charged device, preferably using dry powder fire extinguisher.

Specific hazards arising from the substance or mixture: Slight fire hazard when exposed to heat or flame. May expansion or decompose explosively when heated or involved in fire. Development of hazardous combustion gases or vapor possible in the event of fire.

Advice for fire-fighters: As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 - Accidental Release Measures

Environmental Protection: Isolation leakage polluted area, restricting access. Cut off the fire source. Recommended emergency personnel wearing a dust mask (full cover), wearing protective clothing. Leakage areas keep ventilation.

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. Avoid vapour formation.

Procedure for Cleaning/Collecting: Contain the spilled material using non-combustible absorbent and collect for disposal in accordance with local regulations using specified containers.

Section 7 - Handling and Storage

Handling Precautions: The use of human or corresponding mechanical equipment for foam stacking and waste recycling. Disposal of this material must be made in accordance with Federal, State and Local regulations.

Storage Precautions: Products must be stored in place of dike. Maintain warehouse cool, dry, ventilated, not subject to direct sunlight. Warehouse is strictly prohibited fireworks, from all sources of water, and equipped with the appropriate variety of fire equipment.

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Section 8 - Exposure Controls, Personal Protection

Control parameters: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Engineering controls: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating /lighting/equipment. Set up emergency exit and necessary risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.
Eye protection: Wear chemical safety glasses.
Body protection: Wear protective overalls on infiltration.
Hand protection: Wash hands after completing work. Gloves recommended.
Other protection: 1. Work site prohibit smoking, eating and drinking; 2. Work complete, thorough cleaning; 3.Separate storage of toxic pollution by the clothes, washed the standby; 4.Pay attention to personal hygiene.

Section 9 - Physical and Chemical Properties

Physical State: solid
Odor: N/A
Colour: N/A
PH value: N/A
Vapor Pressure: N/A
Melting point: N/A
Boiling point: N/A
Flammability(solid, gas): N/A
Vapor Density (Air = 1): N/A
Decomposition Temperature: N/A
Evaporation rate (butyl acetate = 1): N/A
Natural temperature: N/A
Density (water = 1): N/A
Flash Point: N/A
Other information: N/A

Section 10 - Stability and Reactivity

Stability: Normal conditions and stability.

Avoid material: Dimethyl benzene, Acetone and other solvents.

Avoid contact with conditions: 1. Avoid heat, fire environment; 2.Avoid strong oxidizing environment; 3. Avoid exposure to strong acidic environment.

Aggregate hazard: N/A

Decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11 - Toxicological Information

Acute toxicity:

Component		Cas No.	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation,4h)
ABS		25155-30-0	No information available	No information available	No information available
LR44 battery	Manganese dioxide	1313-13-9	No information available	No information available	No information available
	Zinc	7440-66-6	LD50 Rat (oral): »2000mg/kg	No information available	No information available
	Graphite	7782-42-5	No information available	No information available	No information available
	Potassium hydroxide	1310-58-3	LD50 Rat (oral): 284mg/kg	No information available	No information available
	Cadmium	7440-43-9	LD50 Rat (oral):1140mg/kg	No information available	No information available
	Mercury	7439-97-6	No information available	No information available	No information available
	Lead	7439-92-1	No information available	No information available	No information available
	Iron	7439-89-6	No information available	No information available	No information available
LED		/	No information available	No information available	No information available
PCBA		/	No information available	No information available	No information available
copper		/	No information available	No information available	No information available
PVC		9002-86-2	No information available	No information available	No information available
iron		7439-89-6	No information available	No information available	No information available

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Others:

Carcinogenicity	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

Section 12 - Ecological Information

Ecological Toxicity:

CAS#7440-66-6

ErC50: 0.15 mg/L - Algae (Pseudokirchneriella subcapitata) - 72h

Persistence and degradability: No date available.

Bioaccumulative potential: No date available.

Mobility in soil: No date available.

Other adverse effects: No date available.

Section 13 - Disposal Considerations

Waste characteristics: Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Waste disposal method: Follow federal, state and local department all provision about health and abandoned handling.

Waste Note: N/A

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Section 14 - Transport Information

Transportation Note: Transport ago, examine containers is complete, seal or not, ensure that the container does not leak, does not collapse, and does not fall and no damage. Strictly prohibited with oxidants, food chemicals and other mixed loading mixed transportation. Conveyance must be thoroughly cleaned, disinfected, or not shipped with other goods.
IMDG-CODE: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.
ICAO/IATA-DG: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.
UN-ADR: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture: N/A
Chemical Safety Assessment: N/A

Section 16 - Additional Information

References: N/A
Guidance Department: N/A
Data Audit Unit: N/A
Edit Description: N/A
Abbreviations and acronyms:
CAS - Chemical Abstracts Service
IARC - International Agency for Research on Cancer
LC50 - Lethal Concentration 50%
LD50 - Lethal Dose 50%
PBT - Persistent, Bioaccumulative, Toxic
vPvB - very Persistent, very Bioaccumulative
IMDG - International Maritime Dangerous Goods
ICAO/IATA - International Civil Aviation Organization/ International Air Transportation Association
UN - The United Nations
Disclaimer:
This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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Ningbo HATEK Co., Ltd.
Address: 6F, No. 65, Mujin Road, National Hi-Tech Zone, Ningbo, Zhejiang 315013, China.
Tel: 86-574-55127888 www.HATEK.com.cn **E-mail: info@HATEK.com.cn**