

Article Information Sheet

Product name: Cylindrical Lithium-ion
Rechargeable Cell

Printing date: 2025-05-13

Fiche d'information Article

Nom du produit: Cylindrical Lithium-ion
Rechargeable Cell

Date d'impression: 2025-05-13

Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS - compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro - technical devices. The design, safety, manufacture, and qualification of Energizer branded consumer batteries follow ANSI and IEC battery standards.

1. DOCUMENT INFORMATION

Product name	Cylindrical Lithium-ion Rechargeable Cell
Model	HYLN IMR18650-1800mAh
Issue Date	2025-05-13

2. COMPANY INFORMATION

Company name(China)	Henan Hengyi lithium energy technology Co., Ltd
Address	Building 3, Xinhua Industrial Park, Longmen Avenue, Xinhua District, Pingdingshan City, Henan, P.R. China
E-mail	hypz002@hylnkj.cn
Telephone	86-18037581522

3. ARTICLE INFORMATION

Description	Cylindrical Lithium-ion Rechargeable Cell
Use	RECHARGEABLE LI-ION BATTERY
Brand	----

Fiche d'information sur l'article (AIS)

Cette fiche d'information Article (AIS) fournit des informations sur la batterie correspondant aux détaillants, aux consommateurs, aux OEM et aux autres utilisateurs qui demandent un SDS SGH-conforme. Les articles, tels que les piles, sont exemptés de critères de classification SGH SDS. Les critères du SGH ne sont pas conçus ou destinés à être utilisés pour classer les risques physiques, la santé et l'environnement d'un article. batteries de consommation de marque sont définis comme des dispositifs électro-technique. La conception, la sécurité, la fabrication, et la qualification des batteries de consommation de marque Energizer sont conformes aux normes de la batterie ANSI et IEC.

1. DOCUMENT D'INFORMATION

Produit Nom	Cylindrical Lithium-ion Rechargeable Cell
Modèle	HYLN IMR18650-1800mAh
Date d'émission	2025-05-13

2. INFORMATIONS SUR LA SOCIÉTÉ

Nom de l'entreprise (Chine)	Henan Hengyi lithium energy technology Co., Ltd
Adresse	Building 3, Xinhua Industrial Park, Longmen Avenue, Xinhua District, Pingdingshan City, Henan, P.R. China
Email	hypz002@hylnkj.cn
Téléphone	86-18037581522

3. ARTICLE D'INFORMATION

La description	Cylindrical Lithium-ion Rechargeable Cell
Utilisation	BATTERIE AUX IONS LITHIUM
Marque	----

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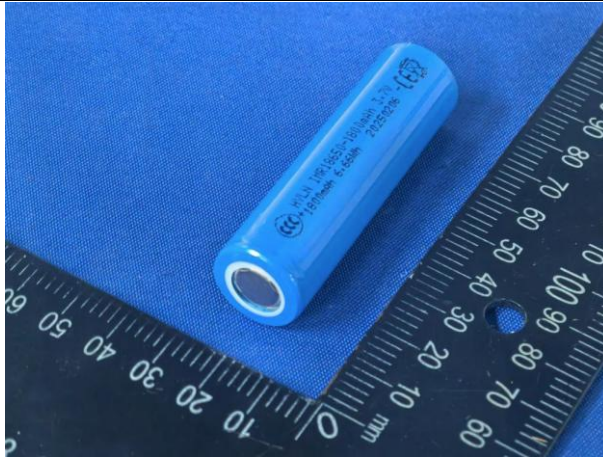
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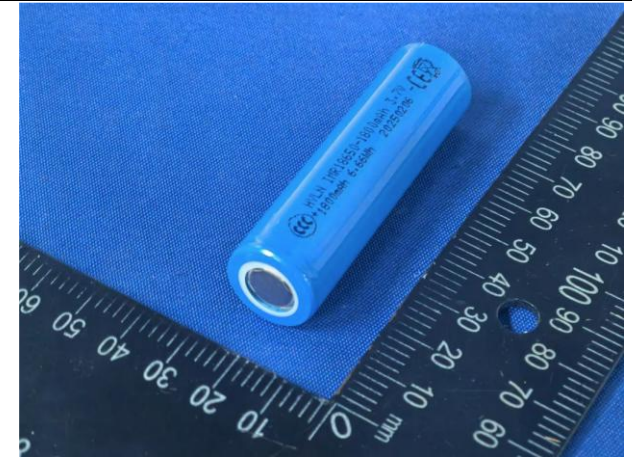
Nom du produit: Cylindrical Lithium-ion
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Image



Image



4. ARTICLE CONSTRUCTION

IMPORTANT NOTE: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

Chemical name	CAS No.	Concentration%
Lithium manganese oxide	12057-17-9	41.51
Aluminum	7429-90-5	7.83
1,1-Difluoroethylene polymer	24937-79-9	1.18
Graphite	7782-42-5	18.53
Copper	7440-50-8	9.07
Styrene-butadiene rubber 1500	9003-55-8	2.41
Polyethylene	9002-88-4	0.59
Polypropylene	9003-07-0	0.95
Phosphate(1-), hexafluoro-, lithium	21324-40-3	9.67
Nickel	7440-02-0	5.02
PVC (Chloroethylene, polymer)	9002-86-2	3.24

5. HEALTH AND SAFETY

4. ARTICLE CONSTRUCTION

REMARQUE IMPORTANTE: La batterie ne doit pas être ouverte ou brûlée. L'exposition aux ingrédients contenus dans leurs produits ou de combustion pourrait être nocif.

Nom chimique	N ° CAS.	Concentration%
Lithium manganese oxide	12057-17-9	41.51
Aluminum	7429-90-5	7.83
Polymère de 1,1-difluoroéthylène	24937-79-9	1.18
Graphite	7782-42-5	18.53
Cuivre	7440-50-8	9.07
Caoutchouc styrène-butadiène 1500	9003-55-8	2.41
Polyéthylène	9002-88-4	0.59
Polypropylène	9003-07-0	0.95
Phosphate (1-), hexafluoro, lithium	21324-40-3	9.67
Nickel	7440-02-0	5.02
PVC (chloroéthylène, polymère)	9002-86-2	3.24

5. SANTÉ ET SÉCURITÉ

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Ingestion	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.	Ingestion	Ne pas faire vomir. Se rincer la bouche et boire beaucoup d'eau. Ne portez rien à la bouche d'une personne inconsciente. Appeler un centre de contrôle médecin ou de poison
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.	Inhalation	À l'air frais. Si la respiration est arrêtée, pratiquer la respiration artificielle. Consulter un médecin immédiatement. Ne pas utiliser le bouche-à-bouche si la victime a ingéré ou inhalé la substance; pratiquer la respiration artificielle à l'aide d'un masque de poche muni d'une valve à une voie ou d'un autre appareil médical approprié. Si la respiration est difficile, (du personnel qualifié devrait) donner de l'oxygène. œdème pulmonaire retardé peut se produire. Consulter un médecin si des symptômes apparaissent.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction.	Contact avec la peau	Laver immédiatement avec du savon et beaucoup d'eau tout en enlevant les vêtements contaminés et les chaussures. Une attention médicale immédiate est nécessaire. Peut provoquer une réaction allergique cutanée.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.	Lentilles de contact	Rincer immédiatement et abondamment avec de l'eau, y compris sous les paupières, pendant au moins 15 minutes. Gardez l'œil ouvert pendant le rinçage. Ne pas frotter les zones touchées. lentilles de contact Retirer, si elle est présente et facile à faire. Continuer à rincer. Consulter un / des conseils médicaux immédiats.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give	Auto-protection du secouriste	Veiller à ce que le personnel médical sont au courant de la matière (s) impliqués, prendre des précautions pour se protéger et prévenir la propagation de la contamination. Éviter tout contact avec la peau, les yeux ou les vêtements. Éviter tout contact direct avec la peau. Utilisez barrière pour donner la respiration artificielle

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mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8)

6. FIRE HAZARD & FIREFIGHTING

Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Special hazards arising from the chemical	In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as Lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended. A smothering agent will extinguish burning lithium batteries.
Precautions for fire-fighters	Emergency Responders should wear self-contained breathing apparatus. Burning lithium manganese dioxide batteries produce toxic and corrosive lithium hydroxide fumes.

7. HANDLING AND STORAGE

Storage	Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life. In locations that handle large
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bouche-à-bouche. Utiliser un équipement de protection individuel requis. Porter des vêtements de protection individuelle (voir la section 8).

6. RISQUE D'INCENDIE & POMPIERS

Risque d'incendie	Les piles peuvent se rompre ou fuir si elle est impliquée dans un incendie.
Moyens d'extinction	Utilisez tous les moyens d'extinction appropriés pour la région environnante
Dangers particuliers résultant de la substance chimique	En cas d'incendie où des batteries au lithium sont présents, zone inondable avec de l'eau ou avec un ÉTOUFFER approprié incendie Classe d'extinction D pour le métal de lithium, comme Lith-X. L'eau ne peut pas éteindre les piles qui brûlent mais refroidir les batteries adjacentes et contrôler la propagation du feu. Les piles qui brûlent va se brûler. Pratiquement tous les feux impliquant des piles au lithium peuvent être contrôlés par les inondations avec de l'eau. Cependant, le contenu de la batterie réagiront avec l'eau et sous forme d'hydrogène gazeux. Dans un espace confiné, le gaz d'hydrogène peut former un mélange explosif. Dans cette situation, les agents étouffants sont recommandés. Un agent étouffant éteindra la combustion des batteries au lithium.
Précautions à prendre pour les pompiers	Équipe d'intervention doivent porter un appareil respiratoire autonome. La combustion des piles de dioxyde de manganèse au lithium produisent toxique et corrosive fumées lithium hydroxyde

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quantities of lithium batteries, such as warehouses, lithium batteries should be isolated from unnecessary combustibles

Handling Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batterie in accordance with equipment instructions.

Spills of Large Quantities Batteries (unpackaged) Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.

8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

9. Transport information

The transportation of primary lithium cells and batteries is regulated by the

7. MANIPULATION ET STOCKAGE

Espace rangement De Conserver dans un endroit frais et bien ventilé. Les températures élevées peuvent entraîner dans la vie de la batterie raccourcie. Dans les endroits qui traitent de grandes quantités de Les piles au lithium, tels que les entrepôts, les batteries au lithium doivent être isolés à partir de combustibles inutiles.

Manipulation Éviter les abus mécaniques et électriques. Ne pas court-circuiter ou installer correctement. Les piles peuvent se rompre ou de ventilation si elles sont démontées, écrasées, rechargées ou exposé à une forte températures. Installez les piles conformément aux instructions du fabricant.

Déversements de grandes quantités Batteries(non fuites ou les piles endommagées. Piles écarter pour arrêter les emballés) Informer le personnel de déversement de grands déversements. Irritant et vapeurs inflammables peuvent être libérés de courts-circuits. éliminer tous les sources d'allumage. Évacuer la zone et laisser les vapeurs se dissipent. Le personnel de nettoyage devrait porter des EPI appropriés pour éviter les yeux et contact avec la peau et l'inhalation des vapeurs ou fumées. Augmenter la ventilation. batteries cueillent et les placer dans un récipient approprié pour disposition. Retirez tout liquide déversé avec une matière absorbante et contiennent pour l'élimination.

8. CONSIDERATIONS RELATIVES À L'ÉLIMINATION

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International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment:

1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations.
2. Meet the requirements for the US Department of Transportation listed in 49 CFR 173.185.
3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule) Lithium batteries shipped as "Lithium batteries", "Lithium batteries packed with equipment", or "Lithium batteries contained in equipment" may not be classified as "Dangerous Goods" when shipped in accordance with "special provision A45 of IATA-DGR" or "special provision 188 of IMO-IMDG Code"

(a) UN number	3480&3481
(b) UN Proper shipping name	LITHIUM ION BATTERIES (including lithium ion polymer batteries) or; LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)
(c) Transport hazard class(es)	9
(d) Packing group (if applicable)	II
(e) Marine pollutant(Yes/No)	No
(f) Transport in bulk (according to Annex II of	No information available.

Jetez les piles usagées (ou excédent) conformément aux règlements fédéraux, provinciaux / provinciaux et locaux. Ne pas accumuler de grandes quantités de piles usagées pour l'élimination comme accumulations pourraient provoquer un court-circuit. Ne pas incinérer. Dans les pays, comme le Canada et l'Union européenne, où il existe des règlements pour la collecte et le recyclage des batteries, les consommateurs devraient disposer de leurs piles usagées dans le réseau de collecte dans les dépôts municipaux et les détaillants. Ils ne doivent pas jeter les piles avec les ordures ménagères.

9. Informations de transport

Le transport des piles au lithium primaire et les batteries est réglementé par l'Organisation internationale de l'aviation civile, l'Association internationale du transport aérien, Code maritime international des marchandises dangereuses et le Département américain des Transports. Les batteries doivent répondre aux critères suivants pour l'expédition:

1. les livraisons d'air doivent satisfaire aux exigences énumérées à disposition spéciale A45 de l'Association internationale du transport aérien des marchandises dangereuses Règlement.
2. Répondre aux exigences du ministère américain des Transports répertoriés dans 49 CFR 173,185.
3. Le transport des piles au lithium primaire est interdit à bord des avions de passagers. Reportez-vous au Registre fédéral de 15 Décembre 2004 (matières dangereuses, interdites sur le transport des piles au lithium primaire et cellules Aboard passagers d'avion Règle finale) Les piles au lithium expédiés comme « batteries au lithium », « Les piles au lithium emballées avec un équipement » ou « piles au lithium contenues dans l'équipement » ne peuvent pas être considérés comme des « marchandises dangereuses » lorsqu'ils sont expédiés conformément à

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MARPOL 73/78 and the IBC

Code)

(g) Special precautions No information available.

(h) Organizations governing the transport of lithium batteries	Area	Method	Organization	Special Provision
	U.S.A	Air, Rail, Road, Marine	DOT	49 CFR Section 173.185

10. REGULATORY INFORMATION

(a) *Safety, health and environmental regulations specific for the product in question*

CAS No	USA TSCA	EU EINECS	Japan ENCS	Korea ECL	China IECSC	Canada DSL
12057-17-9	Listed	Listed	Listed	Listed	Listed	Listed
7429-90-5	Listed	Listed	Not listed	Listed	Listed	Listed
24937-79-9	Listed	Not listed	Listed	Listed	Listed	Listed
7782-42-5	Listed	Listed	Not listed	Listed	Listed	Listed
7440-50-8	Not listed	Listed	Listed	Listed	Listed	Not listed
9003-55-8	Not listed	Listed	Listed	Listed	Listed	Not listed
9002-88-4	Listed	Listed	Listed	Listed	Listed	Listed
9003-07-0	Listed	Listed	Listed	Listed	Listed	Listed
21324-40-3	Not listed	Listed	Listed	Listed	Listed	Not listed
7440-02-0	Not listed	Listed	Listed	Listed	Listed	Not listed
9002-86-2	Listed	Listed	Listed	Listed	Listed	Listed

11. OTHER INFORMATION

la « disposition A45 spéciale de IATA-DGR » ou " disposition spéciale 188 du code de l'OMI-IMDG »

(A) Numéro ONU 3480&3481

(B) l'ONU Nom d'expédition Batteries lithium-ion (y compris les piles de polymère au lithium-ion) ou; Batteries lithium-ion contenues dans un équipement ou LITHIUM ION batteries emballées avec un équipement (y compris les piles de polymère au lithium-ion)

(C) Classe de danger pour le transport (s) 9

(D) des groupes d'emballage (le cas échéant) II

(E) Polluant marin (Oui / Non) Non

(F) de transport en vrac (selon l'Annexe II de MARPOL 73/78 et au recueil IBC) Pas d'information disponible.

(G) Précautions particulières No information available.

(H) Les organisations régissant le transport des batteries au lithium	Zone	Méthode	Organisation	Provision SPECIALE
	Etats-Unis	Aérien, ferroviaire, routier, maritime	POINT	49 CFR Section173,185

10. INFORMATIONS RÉGLEMENTAIRES

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TSCA Toxic Substances Control Act, The American chemical inventory

DSL Domestic Substances List

EINECS European Inventory of Existing Commercial chemical Substances

ENCS Japanese Existing and New Chemical Substances

ECL Existing Chemicals List, the Korean chemical inventory

IECSC Inventory of existing chemical substances in China

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

----- **End of the AIS** -----

(A) la sécurité, de santé et de l'environnement spécifique pour le produit en question

N ° CAS	Etats-Unis TSCA	UE Einecs	Japon ENCS	Corée ECL	Chine IECSC	Canada DSL
12057-17-9	listés	listés	listés	listés	listés	listés
7429-90-5	listés	listés	Non listée	listés	listés	listés
24937-79-9	listés	Non listée	listés	listés	listés	listés
7782-42-5	listés	listés	Non listée	listés	listés	listés
7440-50-8	Non listée	listés	listés	listés	listés	Non listée
9003-55-8	Non listée	listés	listés	listés	listés	Non listée
9002-88-4	listés	listés	listés	listés	listés	listés
9003-07-0	listés	listés	listés	listés	listés	listés
21324-40-3	Non listée	listés	listés	listés	listés	Non listée
7440-02-0	Non listée	listés	listés	listés	listés	Non listée
9002-86-2	listés	listés	listés	listés	listés	listés

11. LES AUTRES INFORMATIONS

TSCA Toxic Substances Control Act, l'inventaire chimique américain

DSL Liste intérieure

Einecs Inventaire européen des substances chimiques existantes commerciales

ENCS Existantes et nouvelles substances chimiques japonaises

ECL Liste des produits chimiques existants, l'inventaire chimique coréenne

IECSC Inventaire des substances chimiques existantes en Chine

Parce que toutes nos batteries sont définis comme des « articles », ils sont exemptés des exigences de la norme de communication des risques. Les informations contenues dans ce AIS est fourni tous les pleinement et véritablement les données pertinentes. Cependant, les informations sont fournies

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sans aucune garantie sur leur extensification absolue et la précision. Cet AIS a été préparé à des mesures préventives de sécurité pour les utilisateurs qui ont obtenu la formation professionnelle. L'utilisateur personnel qui a obtenu ce SIA devrait porter un jugement indépendant pour l'applicabilité de cette AIS dans des conditions particulières. Dans ces cas particuliers, nous n'assumons la responsabilité pour les dommages.

----- **Fin de l'AIS** -----

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



STEM ZONE REPELLENT STARTER KIT/4 US

Version 1.0

Print Date 08/19/2025

Revision Date 04/21/2025

SDS Number 350000046904
GEN_SOF Number 82938

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

- Product name** : **STEM ZONE REPELLENT STARTER KIT/4 US**
- Recommended use** : Insect Repellent
- Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236
- Telephone** : +1 8005585252
- Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Skin irritation	Category 2	Causes skin irritation.
Serious eye damage	Category 1	Causes serious eye damage.
Skin sensitisation	Category 1B	May cause an allergic skin reaction.
Aspiration hazard	Category 1	May be fatal if swallowed and enters airways.

Labelling

Hazard symbols

Corrosion
Exclamation mark
Health hazard

Signal word

Danger

Hazard statements

Causes skin irritation.
Causes serious eye damage.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



STEM ZONE REPELLENT STARTER KIT/4 US

Version 1.0

Print Date 08/19/2025

Revision Date 04/21/2025

SDS Number 350000046904
GEN_SOF Number 82938

May cause an allergic skin reaction.
May be fatal if swallowed and enters airways.

Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Immediately call a POISON CENTER/doctor.

Specific treatment (see supplemental first aid instructions on this label).

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Do NOT induce vomiting.

Take off contaminated clothing and wash before reuse.

Store locked up.

Dispose of contents/ container to an approved incineration plant.

Wear protective gloves/ eye protection/ face protection.

Avoid breathing spray.

Wash hands thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Geraniol	106-24-1	10.00 - 30.00
Citronella oil	8000-29-1	10.00 - 30.00
LEMONGRASS OIL	8007-02-1	10.00 - 30.00
CLOVE OIL	8000-34-8	5.00 - 10.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



STEM ZONE REPELLENT STARTER KIT/4 US

Version 1.0

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Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

- Skin contact** : Wash off with plenty of water. Take off contaminated clothing and wash before reuse. If you suspect a reaction to this product, discontinue use and remove contaminated clothing. If skin irritation or rash occurs: Get medical advice/ attention.
- Inhalation** : No special requirements.
- Ingestion** : IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Container may melt and leak in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Further information** : Fight fire from maximum distance or protected area. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear personal protective equipment. Wash thoroughly after handling.
- Environmental precautions** : Do not flush into surface water or sanitary sewer system. Use appropriate containment to avoid environmental contamination. Outside of normal use, avoid release to the environment.
- Methods and materials for containment and** : Dike large spills. Clean residue from spill site.

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according to Hazard Communication Standard; 29 CFR 1910.1200



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cleaning up

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Avoid contact with eyes and lips.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Contaminated work clothing should not be allowed out of the workplace.
Avoid breathing vapours, mist or gas.
Wash thoroughly after handling.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container closed when not in use.
Keep away from food, drink and animal feedingstuffs.
Keep in a dry, cool and well-ventilated place.
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.
Do not spray in enclosed areas.

Hand protection : Wear suitable gloves.

Eye protection : Wear splash-resistant Chemical goggles.

Skin and body protection : No special requirements.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : light yellow to transparent

Odor : Functional

Odour Threshold : Test not applicable for this product type

pH : Test not applicable for this product type

Melting point/freezing point : 5 °F

Initial boiling point and boiling range : 229 °C

Flash point : > 93 °C
> 199.4 °F
Method: Tag Closed Cup (TCC)

Evaporation rate : Test not applicable for this product type

Flammability (solid, gas) : The product is not flammable.

Upper/lower flammability or explosive limits : Test not applicable for this product type

Vapour pressure : estimated 0.03 hPa

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Vapour density	:	Test not applicable for this product type	:
Relative density	:	0.877 g/cm ³	:
Solubility(ies)	:	partly miscible	:
Partition coefficient: n-octanol/water	:	Pow: estimated 3.56	:
Auto-ignition temperature	:	Test not applicable for this product type	:
Decomposition temperature	:	Test not applicable for this product type	:
Viscosity, dynamic	:	Test not applicable for this product type	:
Viscosity, kinematic	:	Test not applicable for this product type	:
Oxidizing properties	:	Test not applicable for this product type	:
Volatile Organic Compounds Total VOC (wt. %)*	:	5 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	:
Other information	:	None identified	:

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.	:
Chemical stability	:	Stable under recommended storage conditions.	:

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- Possibility of hazardous reactions** : Stable under recommended storage conditions.
- Conditions to avoid** : Direct sources of heat.
- Incompatible materials** : None known.
- Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

- Emergency Overview** : Danger
- Acute oral toxicity** : LD50 > 5000 mg/kg
- Acute inhalation toxicity** : LC50 > 10 mg/L
- Acute dermal toxicity** : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin irritation	Category 2	-
Serious eye damage	Category 1	-

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Skin sensitisation	Category 1B	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	Category 1	-

Aggravated Medical Condition : Do not apply to cuts or irritated skin.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

Components	End point	Species	Value	Exposure time
Geraniol	static test LC50 OECD Test Guideline 203	Danio rerio (zebra fish)	22 mg/l	96 h

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Citronella oil	No data available			
LEMONGRASS OIL	No data available			
CLOVE OIL	No data available			

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Geraniol				
Citronella oil	EC50 OECD Test Guideline 202	Daphnia magna (Water flea)	20.5 mg/l	48 h
LEMONGRASS OIL	EC50	Daphnia magna (Water flea)	27 mg/l	48 h
CLOVE OIL	No data available			

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Geraniol	static test EC50	Desmodemus subspicatus (green algae)	13.9 mg/l	72 h

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	Nominal OECD Test Guideline 201			
Citronella oil	EC50	Pseudokirchneriella subcapitata (green algae)	5.79 mg/l	72 h
LEMONGRASS OIL	No data available			
CLOVE OIL	No data available			

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Geraniol	82 %	28 d	Readily biodegradable.
Citronella oil	No data available		Inherently biodegradable.
LEMONGRASS OIL	No data available		
CLOVE OIL	No data available		

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Geraniol	No data available	2.6
Citronella oil	No data available	No data available
LEMONGRASS OIL	No data available	No data available
CLOVE OIL	No data available	No data available

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Mobility

Component	End point	Value
Geraniol	Koc	70.79
Citronella oil	No data available	
LEMONGRASS OIL	No data available	
CLOVE OIL	No data available	

PBT and vPvB assessment

Component	Results
Geraniol	Not fulfilling PBT and vPvB criteria
Citronella oil	Not fulfilling PBT and vPvB criteria
LEMONGRASS OIL	Not fulfilling PBT and vPvB criteria
CLOVE OIL	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:
For disposal information, please read and follow Disposal instructions on the pesticide label.
Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

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	Land transport	Sea transport	Air transport
UN number or identification number	3082	3082	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (Geraniol, Citronella Oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (Geraniol, Citronella Oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (Geraniol, Citronella Oil)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	-	Marine pollutant	-
Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.

15. REGULATORY INFORMATION**FIFRA Labeling**

This chemical is a pesticide product that qualifies for exemption from regulation under the Federal Insecticide, Fungicide, and Rodenticide Act and has not been registered by the Environmental Protection Agency. It is subject to certain labeling requirements, and these requirements may differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA)

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Chemical Substance Inventory.

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

16. OTHER INFORMATION

HMIS Ratings

Health	3
Flammability	1
Reactivity	0

NFPA Ratings

Health	3
Fire	1
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

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