Date of issue : Dec/26/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: INCENSE STICKS
Product code (SDS NO): APFRIS_JP_E2-1
Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Air freshener Uses advised against:
Do not use for any other purpose. Details of the supplier of the safety data
sheet Manufacturer/Supplier: Instill Co., Ltd.
Address: 893-80, Murata-cho, Chuo-ku, Chiba-shi, Chiba
Telephone number: 043-239-6799
FAX: 043-239-6867
Emergency telephone number: 043-239-6799

Section 2. Hazards identification
GHS classification and label elements of the product
Classification of the substance or mixture
HEALTH HAZARDS
Skin sensitization: Category 1
ENVIRONMENT HAZARDS
Hazardous to the aquatic environment, short-term (acute): Category 3
Hazardous to the aquatic environment, long-term (chronic): Category 3
(Note) GHS classification without description: Not classified/Classification not possible Label
elements

Signal word: Warning
HAZARD STATEMENT
H317 May cause an allergic skin reaction
H402 Harmful to aquatic life
H412 Harmful to aquatic life with long lasting effects
PRECAUTIONARY STATEMENT
Prevention
P273 Avoid release to the environment.
P261 Avoid breathing dust.
P280 Wear protective gloves.
P272 Contaminated work clothing should not be allowed out of the workplace.
Response
P321 Specific treatment is required.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
Disposal
P501 Dispose of contents/container in accordance with local/national regulation.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	CAS No.	Content (%)	Chemicals No, Japan
Dipropylene glycol	25265-71-8	1 - 30	2-413
4-tert-Butyl-cyclohexyl acetate	32210-23-4	1 - 10	3-2311; 3-2356
Benzyl benzoate	120-51-4	1 - 10	3-1389
Linalool	78-70-6	1 - 10	2-249; 2-258
Hexyl cinnamic aldehyde	101-86-0	1 - 10	3-2657
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	54464-57-2	< 1	4-1911
Geraniol	106-24-1	< 1	2-258
Coumarin	91-64-5	< 1	5-688
Citral	5392-40-5	< 1	2-515
cis-3-Hexenyl salicylate	65405-77-8	< 1	3-3041
D-Limonene	5989-27-5	< 1	3-2245; 7-988; 8-498
dl-Camphor	76-22-2	< 1	4-308; 4-601
Bamboo strip	-	26	-
Plant mixed powder	-	41	-

Note : The figures shown above are not the specifications of the product.

The components not described in this component table are not listed in Japan GHS classification result. In the case of contents for which a notification in percentage by weight might unjustifiably prejudice our interests, it is displayed as a range indication in the Components table.

Components contributing to the hazard

Component(s) come under Labeling, etc. article of Industrial Safety and Health Act, Japan

Linalool (Enforced on April 1, 2025) , Hexyl cinnamic aldehyde (Enforced on April 1, 2025) , Benzyl benzoate (Enforced on April 1, 2026)

Component(s) come under Deliver of Documents, etc. article of Industrial Safety and Health Act, Japan

Linalool (Enforced on April 1, 2025) , Hexyl cinnamic aldehyde (Enforced on April 1, 2025) , Geraniol (Enforced on April 1, 2025) , Citral (Enforced on April 1, 2025) , D-Limonene (Enforced on April 1, 2025) , Benzyl benzoate (Enforced on April 1, 2026)

Component(s) listed in chemicals Gr.1 in Japan PRTR Law.

4-tert-Butyl-cyclohexyl acetate , Benzyl benzoate , Hexyl cinnamic aldehyde

Section 4. First-aid measures

Descriptions of first-aid measures

General measures

Call a POISON CENTER/doctor/physician if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell. Most important symptoms and effects, both acute and delayed Specific information on symptom and effect are unknown.

Indication of any immediate medical attention and special treatment needed

Specific treatment is required.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Extinguish from the windward to the extent possible.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Fill the disposal into labelled, closable containers.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)
Avoid breathing dust. (Safety treatments)
Avoid contact with skin.
Avoid contact with eyes.
Safety Measures
Wear protective gloves.
Use personal protective equipment as required.
Any incompatibilities
Strong oxidizing agents should not be mixed with the chemicals.
Advice on general occupational hygiene
Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash it before reuse.
Wash hands thoroughly after handling.
Storage
Conditions for safe storage
Keep container tightly closed.
Keep cool. Protect from sunlight.
(Incompatible storage condition)
Keep out of reach of children.
Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).
Protect from moisture.
Container and packaging materials for safe handling data is not available.

Section 8. Exposure controls/personal protection
Control parameters
Control value and Concentration standard value
(dl-Camphor)
Concentration standard value TWA: 2 ppm
Adopted value
Adopted value in JSOH is not available.
(Citral)
ACGIH(2014) TWA: 5 ppm(IFV) (Body weight eff; URT irr; eye dam)
(dl-Camphor)
ACGIH(1996) TWA: 2 ppm;
STEL: 3 ppm (Eye & URT irr; anosmia)
Notation
(Citral)
Skin; DSEN
Exposure controls
Appropriate engineering controls
Washing facilities should be available.
Individual protection measures
Hand protection
Wear protective gloves.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties
Physical state: Solid (Rod-shaped)
Color: Brown
Odor: Fragrance
Odor threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability (gases, liquids and solids) data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH data is not available.
Kinematic viscosity data is not available.
Solubility:
Solubility in water data is not available.
Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.
Density and/or relative density data is not available.
Relative vapor density (Air=1) data is not available.
Particle characteristics data is not available.

Section 10. Stability and Reactivity

Reactivity
Reactivity data is not available.
Chemical stability
Stable under normal storage/handling conditions.
Possibility of hazardous reactions
Possibility of hazardous reactions data is not available.
Conditions to avoid
Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).
Incompatible materials
Strong oxidizing agents
Hazardous decomposition products
Hazardous decomposition products data is not available.

Section 11. Toxicological Information

Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[GHS Cat. Japan, base data] (4-tert-Butyl-cyclohexyl acetate)
rat LD50=ca. 3,370 mg/kg [ca. 3,323 mg/kg (female), ca. 3,885 mg/kg (male)] (OECD TG 401)

(REACH Registration dossier, Accessed Aug. 2020)
(Hexyl cinnamic aldehyde)
rat LD50=3,100 mg/kg (ChemID (Access on Jan. 2017))
(Benzyl benzoate)
rat LD50=1,880 mg/kg (PATTY 5th, 2001)
(Linalool)
rat LD50=2,790 mg/kg (SIDS, 2004)
(1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)
rat LD50 >5,000 mg/kg (AICIS IMAP, 2017)
(Coumarin)
rat LD50=520 mg/kg (JECFA WHO Food Additives Series 16, 1981)
(Geraniol)
rat LD50=3,600 mg/kg (JECFA 1095, 2004)
(cis-3-Hexenyl salicylate)
rat LD50=5,000 mg/kg (REACH Registration dossier, Accessed June 2020)
Acute toxicity (Dermal)
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[GHS Cat. Japan, base data] (4-tert-Butyl-
cyclohexyl acetate)
rabbit LD50 >4,680 mg/kg (OECD TG 402) (REACH Registration dossier, Accessed Aug. 2020)
(Hexyl cinnamic aldehyde)
rabbit LD50 >3,000 mg/kg (RTECS, Access on Jan. 2017)
(1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)
rat LD50 >5,000 mg/kg (AICIS IMAP, 2017)
(cis-3-Hexenyl salicylate)
rabbit LD50 >5,000 mg/kg (REACH Registration dossier, Accessed June 2020) Acute
toxicity (Inhalation)
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product] No data available.
Irritant properties
Skin corrosion/irritation
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[GHS Cat. Japan, base data]
(Hexyl cinnamic aldehyde)
rabbit erythema, edema, (ECETOC TR66, 1995)
(Linalool)
rabbit (OECD TG404, GLP) moderate irritation (ECETOC TR66, 1995)
(Geraniol)
rabbit (OECD TG 404, GLP) mild to moderate irritation (ECETOC TR 66, 1995)
(Citral)
rabbit mild irritation (SIDS, Access on Aug. 2008)
Serious eye damage/irritation
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]

[GHS Cat. Japan, base data]
(Linalool)
rabbit (OECD TG405) (SIDS, 2004)
(dl-Camphor)
eyes irritation (ACGIH-TLV, 2005)

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product] No data available.

Skin sensitization

[Product]

Category 1, May cause an allergic skin reaction

[Data for components of the product]

[GHS Cat. Japan, base data] (4-tert-Butyl-cyclohexyl acetate)

cat. 1B; mouse/positive (OECD TG 429, GLP) (REACH Registration dossier, Accessed Aug. 2020) (Hexyl cinnamic aldehyde)

cat. 1; human, guinea pig, mouse (ECETOC TR 77, 1999)

(Linalool)

cat. 1; (Contact Dermatitis, Frosch 5th, 2011)

(1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

cat. 1B; (NTP TOX92, 2016);

(OTNE, an isomeric mixture containing this substance) mouse/positive (OECD TG 429) (AICIS IMAP, 2017)

(Geraniol)

cat. 1; (Contact Dermatitis 5th, 2011)

(D-Limonene)

cat. 1; (CICADs No.5, 1998)

(Citral)

cat. 1; (SIDS, 2008)

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product] No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[IARC]

(Coumarin)

Group 3 : Not classifiable as to its carcinogenicity to humans

(D-Limonene)

Group 3 : Not classifiable as to its carcinogenicity to humans

[ACGIH]

(Citral)

A4(2014) : Not Classifiable as a Human Carcinogen

(dl-Camphor)

A4(1996) : Not Classifiable as a Human Carcinogen

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[GHS Cat. Japan, base data]
(Linalool)
cat. 2; rat: (SIDS, 2004)
(Citral)
cat. 2;(JEFCA, 2004)
Specific target organ toxicity (STOT)
STOT-single exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[cat.2]
[GHS Cat. Japan, base data] (4-tert-Butyl-cyclohexyl acetate)
nervous system (REACH Registration dossier, Accessed Aug. 2020)
[cat.3 (narcotic effects)]
[GHS Cat. Japan, base data]
(Linalool)
narcotic effect (SIDS, 2004; USEPA/HPV, 2001)
(Geraniol)
narcotic effect (USEPA/HPV, 2001)
STOT-repeated exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product] No data available.
Aspiration hazard
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
[cat.1]
[GHS Cat. Japan, base data]
(D-Limonene)
cat. 1; hydrocarbon,
(Literature value): kinematic viscosity=0.897 (25℃) and 1.1 mm2/s (25℃) (CLH Report, 2018)

Section 12. Ecological Information
Toxicity
Aquatic toxicity
[Product]
Category 3, Harmful to aquatic life
Category 3, Harmful to aquatic life with long lasting effects
[Data for components of the product]
Hazardous to the aquatic environment, short-term (acute)
[GHS Cat. Japan, base data]
(4-tert-Butyl-cyclohexyl acetate)
Crustacea (Daphnia magna) EC50=5.3 mg/L/48hr (REACH Registration dossier, 2021)
(Benzyl benzoate)
Crustacea (Gammaridea) LC50＝4.8 mg/L/96hr (Aquire, 2008)

(Linalool)
Fish (rainbow trout) LC50=27.8 mg/L/96hr (SIDS, 2005)
(Coumarin)
Crustacea (Daphnia magna) LC50=13.5 mg/L/48hr (Aquire, 2011)
(Geraniol)
Fish (Brown trout) LC50＝2.6mg /L/96hr (Aquire, 2013)
(D-Limonene)
Crustacea (Daphnia magna) EC50=0.307 mg/L/48hr;
Fish (Pimephales promelas) LC50=0.702 mg/L/96hr (EU CLP CLH, 2018)
(Citral)
Fish (Atheriniformes) LC50＝4.1 mg/L/96hr (SIDS, 2001)
(cis-3-Hexenyl salicylate)
Crustacea (Daphnia magna) EC50=0.6 mg/L/48hr (REACH Registration dossier, 2021)
(dl-Camphor)
Fish (Danio rerio) LC50=35 mg/L/96hr (HSDB, 2005)
Hazardous to the aquatic environment, long-term (chronic)
[GHS Cat. Japan, base data]
(4-tert-Butyl-cyclohexyl acetate)
Algae (Desmodesmus subspicatus) ErC10=11 mg/L/72hr (REACH Registration dossier, 2021)
(D-Limonene)
Algae (Raphidocelis subcapitata) NOErC=0.05 mg/L/72hr
(MOE Result of the initial environmental risk assessment of chemicals, 2021) (cis-3-Hexenyl salicylate)
Algae (Desmodesmus subspicatus) NOErC=0.15 mg/L/72hr (REACH Registration dossier, 2021)
Water solubility (Benzyl benzoate) none (ICSC, 1997)
(Linalool)
0.16 g/100 mL (25℃) (ICSC, 1997)
(Coumarin) poor (ICSC, 1998)
(D-Limonene)
very poor (25℃) (ICSC, 2005)
(Citral)
very poor (25℃) (ICSC, 2008)
(dl-Camphor)
0.12 g/100 mL (25℃) (ICSC, 2003) Persistence and degradability
[Data for components of the product]
(4-tert-Butyl-cyclohexyl acetate)
Not rapidly degradable (BIOWIN)
(Benzyl benzoate)
BOD_Degradation: 90% (METI existing chemical safety inspections, 1996)
(Linalool)
BOD_Degradation: 90% (METI existing chemical safety inspections, 1996)
(Coumarin)
Rapidly degradable (good decomposition; BOD_Degradation: 100%
(METI existing chemical safety inspections, 1977)) (Geraniol)
Rapidly degradable (BOD_Degradation: 36, 70% (METI existing chemical safety inspections 1980)) (D-Limonene)
Not rapidly degradable (BIOWIN)
(Citral)
BOD_Degradation: 92% (METI existing chemical safety inspections 1991)

Bioaccumulative potential

[Data for components of the product]

(Benzyl benzoate) log Pow=3.97 (ICSC, 1997)

(Linalool)

log Pow=2.97 (PHYSPROP DB, 2009)

(Coumarin)

log Pow=1.39 (ICSC, 1998)

(Geraniol)

log Kow= 3.47 (NITE, 2012)

(D-Limonene)

log Pow=4.2 (ICSC, 2005)

(Citral)

log Kow=3.45 (SRC, 2005)

(dl-Camphor)

log Kow=2.36 (PHYSPROP DB, 2009)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Avoid release to the environment.

Dispose of contents/container in accordance with local/national regulation.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

Section 14. Transport Information

UN No., UN CLASS

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

Environmental hazards

Marine pollutants (yes/no) : no
Special precautions for user
Special precautions for user is not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
This product is not intended to be carried in bulk.
Rules and regulations on domestic transport
Not applicable to Ship Safety Act
Not applicable to Civil Aeronautics Act

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisonous and Deleterious Substances Control Law, Japan
The product is not applicable to Toxic/harmful substances control law, Japan
Industrial Safety and Health Act, Japan
The product is not applicable to Specified Chemical Ordinance, Japan
The product is not applicable to Organic Solvent Ordinance, Japan
Chemical Substances requiring Labeling and Deliver of Documents, etc.
Labeling, etc.
Hexyl cinnamic aldehyde (Enforced on April 1, 2025); Linalool (Enforced on April 1, 2025);
Benzyl benzoate (Enforced on April 1, 2026)
Report required substances
Hexyl cinnamic aldehyde (Enforced on April 1, 2025); Linalool (Enforced on April 1, 2025);
Geraniol (Enforced on April 1, 2025); D-Limonene (Enforced on April 1, 2025);
Citral (Enforced on April 1, 2025);
Benzyl benzoate (Enforced on April 1, 2026)
PRTR law, Japan
Listed chemicals Gr.1
Benzyl benzoate (1.3%)(JPSN 583);
4-tert-Butylcyclohexyl acetate(3.9%)
[4-tert-Butyl-cyclohexyl acetate (3.9%)(JPSN 714)];
2-Benzylideneoctanal (1.3%)
[Hexyl cinnamic aldehyde (1.3%) (JPSN 734)]
The product is not applicable to Fire Service Act, Japan
Chemical Substances Control Law, Japan
Priority Assessment Chemical Substances (PACSs)
Hexyl cinnamic aldehyde (Registration No. 199 Ecosystem);
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
(Registration No. 204 Ecosystem);
Dipropylene glycol (Registration No. 240 Ecosystem)

Section 16. Other information

References and sources for data
Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
IMDG Code, 2020 Edition (Incorporating Amendment 40-20)
IATA Dangerous Goods Regulations (64th Edition) 2023
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2023 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

2022 Recommendation on TLVs (JSOH)

Notification No. 0111-1 (January 11, 2022), Chemical Hazards Control Division, Industrial Safety and Health Department, Labour Standards Bureau, Ministry of Health, Labour and Welfare

Supplier's data/information

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).