



Safety Data Sheet dated 10/1/2024, version 0

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

1.1. Product identifier

Mixture identification:

Trade name: Pheromone dispenser for Halyomorpha halys

Trade code: S-01218

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

Recommended use:

Pheromone dispenser for *Halyomorpha halys* to be use inside monitoring devices to detect the presence of these pests.

Uses advised against:

the mixture has to be used for the mentioned application and use.

1.3. Details of the supplier of the safety data sheet

Company:

GEA SRL

Via A. B. Sabin, 31

20019 - Settimo Milanese (MI) - ITALIA

Tel: +39 02 33514890 Fax: +39 02 00665233

Competent person responsible for the safety data sheet:

msds@geaitaly.it

1.4. Emergency telephone number

Milan Poison Control Centre + 39 02 66101029 (CAV Ospedale Niguarda Ca` Granda - Milan)

Pavia Poison Control Centre + 39 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Bergamo Poison Control Centre + 39 800 883300 (CAV Ospedali Riuniti - Bergamo)

Florence Poison Control Centre + 39 055 7947819 (CAV Ospedale Careggi - Florence)

Rome Poison Control Centre + 39 06 3054343 (CAV Policlinico Gemelli - Rome)

Rome Poison Control Centre + 39 06 49978000 (CAV Policlinico Umberto I - Rome)

Rome Poison Control Centre + 39 06 68593726 (CAV Ospedale Pediatrico Bambino Gesù -

Roma)

Naples Poison Control Centre +39 081 5453333 (CAV Ospedale Cardarelli - Naples)

Foggia Poison Control Centre +39 800183459 (CAV Azienda Ospedaliera Universitaria -

Foggia'

Verona Poison Control Centre +39 800011858 (CAV Azienda Ospedaliera Integrata - Verona)

Company emergency telephone number: +39 02 33514890 (available from Monday to Friday from 9 a.m. to 6 p.m., for technical assistance only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

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Pheromone dispenser for Halyomorpha halys

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1% Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 0.3% - < 0.5%	cyclohexane	Index 601-017-00- number: CAS: 110-82-7 EC: 203-806-2 REACH No.: 01- 2119463273 41	3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None



Pheromone dispenser for Halyomorpha halys

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular



Pheromone dispenser for Halyomorpha halys

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

cyclohexane - CAS: 110-82-7

- OEL Type: OEL - TWA: 700 mg/m3, 200 ppm

- OEL Type: TVL-ACGIH - TWA: 344 mg/m3, 100 ppm

DNEL Exposure Limit Values

N.À.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Wear protective gloves.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Solid		
Colour:	N.A.		
Odour:	Sui generis		
Melting point/freezing point:	N.A.		
Boiling point or initial boiling point and boiling range:	N.A.		
Flammability:	N.A.		
Lower and upper explosion limit:	N.A.		
Flash point:	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
pH:	N.A.		
Kinematic viscosity:	N.A.		
Solubility in water:	N.A.		
Solubility in oil:	N.A.		
Partition coefficient n-octanol/water (log value):	N.A.		
Vapour pressure:	N.A.		

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Density and/or relative	N.A.		
density:			
Relative vapour density:	N.A.		
Particle characteristics:			
Particle size:	N.A.		

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

Pheromone dispenser for Halyomorpha halys

a) Acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

Pheromone dispenser for Halyomorpha halys



i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

cyclohexane - CAS: 110-82-7

a) Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: Method equivalent or similar to OECD Guideline 401.

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Notes: Method equivalent or similar to OECD Guideline 402.

Test: LC50 - Route: Inhalation - Species: Rat > 5540 ppm - Duration: 4H - Notes: Method equivalent or similar to OECD Guideline 403.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Pheromone dispenser for Halyomorpha halys

The product is classified: Aquatic Chronic 3 - H412

cyclohexane - CAS: 110-82-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.53 mg/l - Duration h: 96 - Notes: Pimephales promelas. Metodo equivalente o similare a OECD Guideline 203.

Endpoint: EC50 - Species: Crustaceans = 0.9 mg/l - Duration h: 48 - Notes: Daphnia magna. Metodo equivalente o similare a OECD Guideline 202.

Endpoint: EC50 - Species: Algae = 3.4 mg/l - Duration h: 72 - Notes:

Pseudokircheneriella subcapitata. Metodo equivalente o similare a OECD Guideline 201.

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 0.9 mg/l - Duration h: 72 - Notes:

Pseudokircheneriella subcapitata. Metodo equivalente o similare a OECD Guideline 201.

12.2. Persistence and degradability

cyclohexane - CAS: 110-82-7

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 77 - Notes: % (OECD Guideline 301 F).

12.3. Bioaccumulative potential

cyclohexane - CAS: 110-82-7

Partition coefficient: n-octano/water 3.44 - Notes: 25°C (hansch C, Leo A and Hoekman D, 1995)

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects



Pheromone dispenser for Halyomorpha halys

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

NΑ

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 10 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

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Restriction 3
Restriction 40

Restrictions related to the substances contained:

Restriction 57 Restriction 75

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: None

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description	
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2	
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1	
Skin Irrit. 2	3.2/2	Skin irritation, Category 2	
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3	
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1	
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1	
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

Safety Data Sheet

Pheromone dispenser for Halyomorpha halys

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods

by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.09.2022 Version number 21 Revision: 16.09.2022

Trade name: Cyclohexane

(Contd. of page 11)

Annex: Exposure scenario

- · Short title of the exposure scenario Chemicals products for laboratory
- · Sector of Use Industrial use.
- · Process category

PROC10 Roller application or brushing

PROC15 Use as laboratory reagent

· Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

· Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use Customary application according to section 1.
- · Duration and frequency 5 workdays/week.
- · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions Observe the general safety regulations when handling chemicals.
- · Other operational conditions affecting environmental exposure Use only on hard ground.
- · Other operational conditions affecting worker exposure

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- · Risk management measures
- · Worker protection
- · Organisational protective measures

Keep good industrial hygiene.

Ensure that activities are executed by specialists or authorised personnel only.

Provide sufficient washing facilities.

Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product.

Work clothes must not consist of textiles that exhibit dangerous melting behaviour in case of fire.

· Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Only handle and refill product in closed systems or under local exhaust.

· Personal protective measures

Avoid contact with the skin.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Neoprene gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

Rubber gloves

Tightly sealed goggles

The usual precautionary measures are to be adhered to when handling chemicals.

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Use suitable respiratory protective device only when aerosol or mist is formed.

Use suitable respiratory protective device when high concentrations are present.

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 13)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.09.2022 Version number 21 Revision: 16.09.2022

Trade name: Cyclohexane

(Contd. of page 12)

Solvent resistant protective clothing

· Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

- · Water Do not allow to reach sewage system.
- · Soil Prevent contamination of soil.
- · Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- · Disposal measures Ensure that waste is collected and contained.

· Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Worker (dermal)

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

· Worker (inhalation)

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

GB





Safety Data Sheet dated 10/1/2024, version 0

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

1.1. Product identifier

Mixture identification:

Trade name: Attractant dispenser for *Halyomorpha halys*

Trade code: S-01217

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

Recommended use:

Attractant dispenser for *Halyomorpha halys* to be use inside monitoring devices to detect the presence of these pests.

Uses advised against:

the mixture has to be used for the mentioned application and use.

1.3. Details of the supplier of the safety data sheet

Company:

GEA SRL

Via A. B. Sabin, 31

20019 - Settimo Milanese (MI) - ITALIA

Tel: +39 02 33514890 Fax: +39 02 00665233

Competent person responsible for the safety data sheet:

msds@geaitaly.it

1.4. Emergency telephone number

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Verona Poison Control Centre +39 800011858 (CAV Azienda Ospedaliera Integrata - Verona)

Company emergency telephone number: +39 02 33514890 (available from Monday to Friday from 9 a.m. to 6 p.m., for technical assistance only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Hazard pictograms:

None

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Attractant dispenser for Halyomorpha halys

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 0.1% - < 0.25%	cyclohexane	Index 601-017-00 number: CAS: 110-82-7 EC: 203-806-2 REACH No.: 01- 211946327 41	3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

None

GEA

Attractant dispenser for Halyomorpha halys

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

None.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

cyclohexane - CAS: 110-82-7

- OEL Type: OEL - TWA: 700 mg/m3, 200 ppm

- OEL Type: TVL-ACGIH - TWA: 344 mg/m3, 100 ppm

Safety Data Sheet

Attractant dispenser for Halyomorpha halys

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Wear protective gloves.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Solid		
Colour:	N.A.		
Odour:	Sui generis		
Melting point/freezing point:	N.A.		
Boiling point or initial boiling point and boiling range:	N.A.		
Flammability:	N.A.		
Lower and upper explosion limit:	N.A.		
Flash point:	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
pH:	N.A.		
Kinematic viscosity:	N.A.		
Solubility in water:	N.A.		
Solubility in oil:	N.A.		
Partition coefficient n-	N.A.		
octanol/water (log value):			
Vapour pressure:	N.A.		
Density and/or relative density:	N.A.		
Relative vapour density:	N.A.	<u> </u>	

Particle characteristics:

Doutiele einer	NI A	
l Particle size:	INA	

9.2. Other information

No other relevant information





SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

Attractant dispenser for Halyomorpha halys

a) Acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:

cyclohexane - CAS: 110-82-7

a) Acute toxicity:



Attractant dispenser for Halyomorpha halys

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: Method equivalent or similar to OECD Guideline 401.

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Notes: Method equivalent or similar to OECD Guideline 402.

Test: LC50 - Route: Inhalation - Species: Rat > 5540 ppm - Duration: 4H - Notes: Method equivalent or similar to OECD Guideline 403.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Attractant dispenser for *Halvomorpha halvs*

Not classified for environmental hazards

Based on available data, the classification criteria are not met

cyclohexane - CAS: 110-82-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.53 mg/l - Duration h: 96 - Notes: Pimephales promelas. Metodo equivalente o similare a OECD Guideline 203.

Endpoint: EC50 - Species: Crustaceans = 0.9 mg/l - Duration h: 48 - Notes: Daphnia magna. Metodo equivalente o similare a OECD Guideline 202.

Endpoint: EC50 - Species: Algae = 3.4 mg/l - Duration h: 72 - Notes:

Pseudokircheneriella subcapitata. Metodo equivalente o similare a OECD Guideline 201.

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 0.9 mg/l - Duration h: 72 - Notes:

Pseudokircheneriella subcapitata. Metodo equivalente o similare a OECD Guideline 201.

12.2. Persistence and degradability

cyclohexane - CAS: 110-82-7

Biodegradability: Readily biodegradable - Duration h: 28 days - %: 77 - Notes: % (OECD Guideline 301 F).

12.3. Bioaccumulative potential

cyclohexane - CAS: 110-82-7

Partition coefficient: n-octano/water 3.44 - Notes: 25°C (hansch C, Leo A and Hoekman D, 1995)

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.



Attractant dispenser for Halyomorpha halys

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 40

Restrictions related to the substances contained:

Restriction 57

Restriction 75

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

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Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

N.A

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: None

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description	
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2	
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1	
Skin Irrit. 2	3.2/2	Skin irritation, Category 2	
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3	
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1	
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1	

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

IATA: International Air Transport Association.

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Attractant dispenser for Halyomorpha halys

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

ICAO: International Civil Áviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods

by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.09.2022 Version number 21 Revision: 16.09.2022

Trade name: Cyclohexane

(Contd. of page 11)

Annex: Exposure scenario

- · Short title of the exposure scenario Chemicals products for laboratory
- · Sector of Use Industrial use.
- · Process category

PROC10 Roller application or brushing

PROC15 Use as laboratory reagent

· Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

· Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use Customary application according to section 1.
- · Duration and frequency 5 workdays/week.
- · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions Observe the general safety regulations when handling chemicals.
- · Other operational conditions affecting environmental exposure Use only on hard ground.
- · Other operational conditions affecting worker exposure

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- · Risk management measures
- · Worker protection
- · Organisational protective measures

Keep good industrial hygiene.

Ensure that activities are executed by specialists or authorised personnel only.

Provide sufficient washing facilities.

Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product.

Work clothes must not consist of textiles that exhibit dangerous melting behaviour in case of fire.

· Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Provide explosion-proof electrical equipment.

Only handle and refill product in closed systems or under local exhaust.

· Personal protective measures

Avoid contact with the skin.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Neoprene gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

Rubber gloves

Tightly sealed goggles

The usual precautionary measures are to be adhered to when handling chemicals.

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Use suitable respiratory protective device only when aerosol or mist is formed.

Use suitable respiratory protective device when high concentrations are present.

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 13)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.09.2022 Version number 21 Revision: 16.09.2022

Trade name: Cyclohexane

(Contd. of page 12)

Solvent resistant protective clothing

· Environmental protection measures

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

- · Water Do not allow to reach sewage system.
- · Soil Prevent contamination of soil.
- · Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- · Disposal measures Ensure that waste is collected and contained.

· Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Worker (dermal)

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

· Worker (inhalation)

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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