

SAFETY DATA SHEET*(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)***Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier** : Autan® Defense Plant Based Active Ingredient* Insect Repellent**UFI** : HPFF-WOFT-R106-2D7R**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture** : Biocidal products (e.g. Disinfectants, pest control)**Uses advised against** : None known.**1.3 Details of the supplier of the safety data sheet** : SC Johnson Sweden AB
Ekbacksvägen 28168 69 Bromma, Sverige**Telephone** : +46 0200212025**E-mail address** : info@scjohnson.se**1.4 Emergency telephone number** : 112 Poison information**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

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

Hazard classification	Hazard category	Hazards identification
Flammable liquids	Category 3	Flammable liquid and vapour.
Eye irritation	Category 2	Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard symbols**Signal word**

Warning

Active Ingredients (BPR)

SAFETY DATA SHEET*(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)***Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

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Eucalyptus citriodora oil, hydrated, cyclized 30% (30g/100g) (279-298,5 g/L).

Hazard statements

(H226) Flammable liquid and vapour.

(H319) Causes serious eye irritation.

Precautionary statements

(P101) If medical advice is needed, have product container or label at hand.

(P102) Keep out of reach of children.

(P305 + P351 + P338) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(P337 + P313) If eye irritation persists: Get medical advice/ attention.

(P501) Dispose of contents /container in accordance with local regulations.

(P210) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Contains

citronellal

citronellol

cineole

limonene

linalool

May produce an allergic reaction.

2.3 Other hazards**: Endocrine Disruptor**

The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

PBT and vPvB substance

The mixture does not contain any substances >0.1% that meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with Annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Mixtures****Hazardous components:**

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

Chemical name	CAS-No./EC-No.	Reg. No.	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Eucalyptus citriodora oil, hydrated, cyclized	1245629-80-4 /	not required	Eye irritation Category 2 H319	>= 30.00 - < 40.00	ATE: Oral = > 2,000 mg/kg Species: Rat Dermal = > 2,000 mg/kg Species: Rat Inhalation = 10.4 mg/l Species: Rat
ethyl alcohol	64-17-5 / 200-578-6	01-2119457610-43	Flammable liquids Category 2 H225 Serious eye damage/eye irritation Category 2 H319	>= 20.00 - < 30.00	ATE: Oral = 10,470 mg/kg Species: Rat Dermal = > 15,800 mg/kg Species: Rabbit SCL: Serious eye damage/eye irritation H319 >= 50 %
isopropanol	67-63-0 / 200-661-7	01-2119457558-25	Flammable liquids Category 2 H225 Eye irritation Category 2 H319 Specific target organ toxicity - single exposure Category 3 H336	>= 10.00 - < 20.00	ATE: Oral = 5.84 g/kg Species: Rat

Additional Information

For the full text of the H-Statements mentioned in this Section, see Section 16.

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0
Revision Date 14.12.2022

Print Date 29.09.2023
Specification Number: 350000035220
SITE FORM Number: 30000000000000023738.001

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

- Inhalation : No special requirements
- Skin contact : Rinse with plenty of water.
Get medical attention if irritation develops and persists.
- Eye contact : Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

- Eyes : Causes serious eye irritation.
No adverse effects expected when used as directed.
- Skin effect : No adverse effects expected when used as directed.
- Inhalation : No adverse effects expected when used as directed.
- Ingestion : May cause irritation to mouth, throat and stomach.
May cause abdominal discomfort.
No adverse effects expected when used as directed.

4.3 Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

- Suitable : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable : None identified

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

- 5.2 Special hazards arising from the substance or mixture** : Flammable liquid. Vapors are heavier than air and may travel to a source of ignition and flash back.
In case of fire and/or explosion do not breathe fumes.
For large quantities of flammable liquids, consider containment to prevent the spread of fire.
Exposure to decomposition products may be a hazard to health.
- 5.3 Advice for firefighters** : In the event of fire, wear self-contained breathing apparatus.
Wear suitable protective clothing and gloves.
Refer to current EN or National standard as appropriate.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment.
Remove all sources of ignition.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 6.2 Environmental precautions** : Outside of normal use, avoid release to the environment.
Prevent large amounts of product from entering drains.
Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
Use appropriate containment to avoid environmental contamination.
- 6.3 Methods and materials for containment and cleaning up** : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Clean residue from spill site.
Use only non-sparking equipment.
- 6.4 Reference to other sections** : For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : For personal protection see section 8.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
Wear personal protective equipment.
Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.
- 7.2 Conditions for safe storage,** : No smoking.

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**Version 2.0
Revision Date 14.12.2022Print Date 29.09.2023
Specification Number: 350000035220
SITE FORM Number: 30000000000000023738.001**including any incompatibilities**Store in cool place.
Do not freeze.
Keep out of the reach of children.
Store away from food, beverages and pet food.
No decomposition if stored and applied as directed.**7.3 Specific end use(s)**: Consumer uses: Private households (= general public = consumers)
Biocidal products (e.g. Disinfectants, pest control)**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Occupational Exposure Limit Values**

Components	CAS-No.	mg/m3	ppm	Form of exposure	List
ethyl alcohol	64-17-5	1,900 mg/m3	1,000 ppm		SE_STEL
		1,000 mg/m3	500 ppm		SE_TWAS
isopropanol	67-63-0	600 mg/m3	250 ppm		SE_STEL
		350 mg/m3	150 ppm		SE_TWAS

Refer to current EN or National standard as appropriate.

8.2 Exposure controls

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection : Wear suitable gloves.
Nitrile gloves – Thickness 0.12mm; Breakthrough time >2 hours.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.

Eye/face protection : Safety glasses

Skin and body protection : Wash contaminated clothing before re-use.

Other information : When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.

Environmental Exposure Controls : Refer to section 6.

SAFETY DATA SHEET*(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)***Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0
Revision Date 14.12.2022

Print Date 29.09.2023
Specification Number: 350000035220
SITE FORM Number: 30000000000000023738.001

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: colourless to light yellow
Odour	: Citrus
pH	: 6.5 - 9.0 at (25 °C)
Melting point/freezing point	: -20°C - 0°C
Initial boiling point and boiling range	: >35°C
Flash point	: 26 °C Method: Tag Closed Cup (TCC)
Flammability (solid, gas)	: not auto-flammable
Lower flammability or explosive limits	: 3.3 %(V)
Upper flammability or explosive limits	: 19.0 %(V)
Vapour density	: Not measured as mixture does not contain significant volatiles
Relative density	: 0.89 - 0.93 g/cm3 at 20 °C
Solubility(ies)	: partly miscible
Partition coefficient: n-octanol/water	: Not required as the product is a mixture.
Auto-ignition temperature	: 365 °C
Decomposition temperature	: Not measured as mixture is not self-reactive
Viscosity, kinematic	: similar to water
Particle Characteristics	: Not required as mixture is a liquid

9.2 Other information

SAFETY DATA SHEET*(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)***Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

Other information : Test not applicable for this product type

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity : No dangerous reaction known under conditions of normal use.

10.2 Chemical stability : Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials : None known.

10.6 Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Name	Method	Species	Dose
Product	LD50 estimated OECD Test Guideline 401	Rat	2,408 mg/kg

Acute inhalation toxicity

Name	Method	Species	Dose	Exposure time
Product	LC50 (dust and mist) estimated	Rat	> 2.06 mg/l	4 h

Acute dermal toxicity

Name	Method	Species	Dose
Product	LD50 estimated	Rat	> 2,000 mg/kg

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

	OECD Test Guideline 402		
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Skin corrosion/irritation	:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	:	Causes serious eye irritation.
Skin sensitisation	:	Based on available data, the classification criteria are not met. Human Repeated Insult Patch Test Based on available data, the classification criteria are not met.
Germ cell mutagenicity	:	Based on available data, the classification criteria are not met.
Carcinogenicity	:	Based on available data, the classification criteria are not met.
Toxicity for reproduction	:	Based on available data, the classification criteria are not met.
STOT - single exposure	:	Based on available data, the classification criteria are not met.
STOT - repeated exposure	:	Based on available data, the classification criteria are not met.
Aspiration hazard	:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine Disrupting Properties	:	The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties
Other information	:	None identified

SECTION 12: ECOLOGICAL INFORMATION**Product** : The product itself has not been tested.**12.1 Toxicity****Toxicity to fish**

Components	End point	Species	Value	Exposure time
Eucalyptus citriodora oil, hydrated, cyclized	EC50	Danio rerio (zebra fish)	> 35 mg/l	96 h

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

ethyl alcohol	LC50	Fish	11,200 mg/l	96 h
isopropanol	LC50 flow-through test	Pimephales promelas (fathead minnow)	9,640 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Eucalyptus citriodora oil, hydrated, cyclized	EC50	Daphnia magna (Water flea)	> 26 mg/l	48 h
ethyl alcohol	LC50 static test	Ceriodaphnia dubia	5,012 mg/l	48 h
	NOEC	Daphnia magna	9.6 mg/l	9 d
isopropanol	EC50 static test	Daphnia magna (Water flea)	> 1,000 mg/l	24 h
	NOEC semi-static test	Daphnia magna	30 mg/l	21 d

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Eucalyptus citriodora oil, hydrated, cyclized	EC50	Pseudokirchneriella subcapitata (green algae)	> 37 mg/l	72 h
ethyl alcohol	EC50 Static	Chlorella vulgaris (Fresh water algae)	275 mg/l	72 h
isopropanol	EC50	Desmodesmus subspicatus (green algae)	> 1,000 mg/l	72 h

12.2 Persistence and degradability

Component	Biodegradation	Exposure time	Summary
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SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**Version 2.0
Revision Date 14.12.2022Print Date 29.09.2023
Specification Number: 350000035220
SITE FORM Number: 30000000000000023738.001

Eucalyptus citriodora oil, hydrated, cyclized			Readily biodegradable.
ethyl alcohol	97 %	28 d	Readily biodegradable.
isopropanol	84 %	28 d	Readily biodegradable.

12.3 Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Eucalyptus citriodora oil, hydrated, cyclized	No data available	1.9
ethyl alcohol	3.2 estimated	-0.35 Measured
isopropanol	< 100	0.05

12.4 Mobility in soil

Component	End point	Value
Eucalyptus citriodora oil, hydrated, cyclized	No data available	
ethyl alcohol	No data available	
isopropanol	Koc	1.1 estimated

12.5 Results of PBT and vPvB assessment

Component	Results
Eucalyptus citriodora oil, hydrated, cyclized	Not fulfilling PBT and vPvB criteria
ethyl alcohol	Not fulfilling PBT and vPvB criteria
isopropanol	Not fulfilling PBT and vPvB criteria

12.6 Endocrine Disrupting Properties : The mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with

SAFETY DATA SHEET*(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)***Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

chemical or used container.
Disposal should be in accordance with local, state or national
legislation.
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

	Land transport	Sea transport	Air transport
14.1 UN number	1987	1987	1987
14.2 UN proper shipping name	ALCOHOLS, N.O.S. (Ethanol, Isopropyl Alcohol)	ALCOHOLS, N.O.S. (Ethanol, Isopropyl Alcohol)	ALCOHOLS, N.O.S. (Ethanol, Isopropyl Alcohol)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards			
14.6 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.
14.7 Maritime transport in bulk according to IMO instruments	Product not transported as bulk.	Product not transported as bulk.	Product not transported as bulk.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

: This safety datasheet complies with the requirements of:

Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 (CLP) as amended (not applicable to cosmetics)

Regulation (EC) No. 528/2012 as amended (applicable to biocidal products)

Directive (EEC) No. 75/324 as amended (applicable to aerosols)

Regulation (EC) No. 1223/2009 amended (applicable to cosmetic products)

SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

Print Date 29.09.2023

Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

Regulation (EC) No. 684/2001 The surfactants contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No.648/2004 for detergents (applicable to detergents).

Directive (EC) No. 2001/95/EC - General Product Safety Directive

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Directive 2012/18/EU Seveso

Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

SZW list of carcinogenic, mutagenic and reproductively toxic substances
Reg. no 4317

15.2 Chemical safety assessment : Not required for consumer products.

SECTION 16: OTHER INFORMATION

If applicable, revision(s) are noted by the bold bars || in left-hand margin.

Key abbreviations or acronyms used

EC - European Community

EEC – European Economic Community

CLP – Classification Labelling & Packaging

EN – European Standard or European Norm

PBT – Persistent, Bioaccumulative & Toxic

vPvB – very persistent, very bioaccumulative

UN – United Nations

Evaluation methods

Unless otherwise stated in section 11, the procedure used to derive the human health classification is the relevant calculation method according to CLP regulation (EC) No 1272/2008 as amended.

Unless otherwise stated in section 12, the procedure used to derive the environmental classification is the summation of the classified components method according to CLP regulation (EC) No 1272/2008 as amended.

Full text of H-Statements

H319	Causes serious eye irritation.
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SAFETY DATA SHEET

(Regulation (EU) 2020/878 amending the annex II of REACH regulation.)

**Autan® Defense Plant Based Active Ingredient* Insect Repellent**

Version 2.0

Revision Date 14.12.2022

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Specification Number: 350000035220

SITE FORM Number: 30000000000000023738.001

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