Safety Data Sheet

Date of issue: 12/06/2015

Version: 3.0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date:

Rentokil

SECTION 4. Identification of th	a autotonea/minture and of the company/undertaking
1.1. Product identifier	e substance/mixture and of the company/undertaking
Product name	: INSECTROL INSECT KILLER
Brand	: RENTOKIL
Product code	: PSI36 250ml PSI38 400ml
Type of product	: Biocide
Registration No	HSE 8459, PCS 95177
Vaporizer	: Aerosol
Product form	: Mixture
1.2. Relevant identified uses of the	ne substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Intended for general public	
Use of the substance/mixture	: Hand-held insecticidal aerosol sray with a kerosene type odour. For amateur use against fleas ants, bedbugs and other insects in the home.
Main use category	: Consumer use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Insecticide
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	safety data sheet
Supplier Rentokil Initial Supplies Liverpool	

Rentokil Initial Supplies Liverpool L33 7SR UK

Product advice line: +44 (0)151 548 5050 Email: sds@rentokil.com

1.4. Emergency telephone number

Emergency number

: +44 (0)1342 833022

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road Dublin 9	+353 1 809 2166 (public, 8am - 10pm, 7/7)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road Birmingham B18 7QH	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 1 H222;H229 Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F+; R12

N; R50/53

R66

29/10/2015

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) No. 1	272/2008 [CLP]
Hazard pictograms (CLP)	GHS02 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H222 - Extremely flammable aerosol H229 - Pressurised container: May burst if heated H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P251 - Do not pierce or burn, even after use P273 - Avoid release to the environment P391 - Collect spillage P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F P501 - Dispose of contents/container to normal household waste. However if used in a place of work any product and empty container must be disposed of as controlled waste.
EUH-statements	 EUH208 - Contains Permethrin. May produce an allergic reaction EUH066 - Repeated exposure may cause skin dryness or cracking

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

s.z. mixture			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	(EC no) 918-167-1	50 - 75	Xn; R65 R66 R53
Petroleum gases, liquefied, Petroleum gas, [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).] substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 68476-85-7 (EC no) 270-704-2 (EC index no) 649-202-00-6	>= 25	F+; R12
Permethrin	(CAS No) 52645-53-1 (EC no) 258-067-9 (EC index no) 613-058-00-2	0.5	Xn; R20/22 R43 N; R50/53
d-allethrin	(CAS No) 231937-89.6 (EC index no) 209-542-4	0.1 - 1	Xn; R22 N; R50/53
1,3-butadiene, buta-1,3-diene	(CAS No) 106-99-0 (EC no) 203-450-8 (EC index no) 601-013-00-X	< 0.1	F+; R12 Carc.Cat.1; R45 Muta.Cat.2; R46
Name	Product identifier	Specific con	centration limits
Permethrin	(CAS No) 52645-53-1 (EC no) 258-067-9 (EC index no) 613-058-00-2		< 0.0025) R52/53 0.025) N;R51/53 R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	(EC no) 918-167-1	50 - 75	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum gases, liquefied, Petroleum gas, [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).] substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 68476-85-7 (EC no) 270-704-2 (EC index no) 649-202-00-6	>= 25	Flam. Gas 1, H220 Liquefied gas, H280
Permethrin	(CAS No) 52645-53-1 (EC no) 258-067-9 (EC index no) 613-058-00-2	0.5	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
d-allethrin	(CAS No) 231937-89.6 (EC index no) 209-542-4	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:gas), H332 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
1,3-butadiene, buta-1,3-diene	(CAS No) 106-99-0 (EC no) 203-450-8 (EC index no) 601-013-00-X	< 0.1	Flam. Gas 1, H220 Press. Gas Carc. 1A, H350 Muta. 1B, H340

Full text of R- and H-statements: see section 16

4.1. Description of first aid measures First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation : Remove vicitm to fresh air and keep at rest in a position comfortable for breathing. Allow breathing of fresh air. Allow the victm to rest. First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild scap and water, followed by warm water rinse. Repeated exposure may cause skin dryness or cracking. First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. : Extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream. : 5.3. Advice for firefighters : Extremely flammable aerosol. : 5.3. Advice for firefighters : Do not use a heavy water from entering environment. Protection during frefighting : Do not user apray or fog for cooling exposed con	SECTION 4: First aid measures	
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Protective equipment : Equip cleanup crew with proper protection.	Emergency procedures	: Evacuate unnecessary personnel.
Protective equipment : Equip cleanup crew with proper protection.	6.1.2. For emergency responders	
Emergency procedures	Protective equipment	: Equip cleanup crew with proper protection.
	Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Methods and material for containment and cleaning up 6.3 Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. 6.4. **Reference to other sections** See also sections 8 and 13. Exposure controls and personal protection. Disposal considerations. SECTION 7: Handling and storage 7.1. Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Conditions for safe storage, including any incompatibilities 7.2. Storage conditions : Protect from heat and direct sunlight. Keep out of reach of children. Keep only in the original container in a cool well ventilated place. Keep away from food, drink and animal feedingstuffs. Incompatible products : Strong bases. Strong acids. Incompatible materials : Sources of ignition. Direct sunlight. Specific end use(s) 7.3. Insecticide. **SECTION 8: Exposure controls/personal protection** 8.1. **Control parameters** Petroleum gases, liquefied, Petroleum gas, [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).] (68476-85-7) Ireland Local name Liquefied petroleum gas (LPG) Ireland OEL (8 hours ref) (mg/m³) 1800 mg/m³

Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	OEL (15 min ref) (mg/m3)	2250 mg/m ³
Ireland	OEL (15 min ref) (ppm)	1250 ppm
United Kingdom	Local name	Liquefied petroleum gas
United Kingdom	WEL TWA (mg/m ³)	1750 mg/m³
United Kingdom	WEL TWA (ppm)	1000 ppm
United Kingdom	WEL STEL (mg/m ³)	2180 mg/m³
United Kingdom	WEL STEL (ppm)	1250 ppm
United Kingdom	Remark (WEL)	Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)
1,3-butadiene, buta-1,3-	diene (106-99-0)	
Ireland	Local name	Buta-1,3-diene
Ireland	OEL (8 hours ref) (mg/m ³)	2.2 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1 ppm
Ireland	Notes (IE)	Carc1A, Muta1B
United Kingdom	Local name	Buta-1,3-diene
United Kingdom	WEL TWA (mg/m ³)	22 mg/m ³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	Remark (WEL)	Carc

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and chemica	

SECTION	ECTION 9: Physical and chemical properties	
9.1.	Information on basic physical and c	hemical properties
Physical	state	: Liquid
Appeara	nce	: Colourless liquid.

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ording to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 ad

Colour	: Colourless.		
Odour	: characteristic.		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: -245 °C for aerosol propellant		
Flash point	: < -40 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Extremely flammable aerosol,Non flammable		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: immiscible.		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
9.2. Other information			
Additional information	: Discharge rate 1.7g/sec at 20degreesC. Net fill weight (for aerosols) 232g.		
SECTION 10: Stability and reactivity	ty		
10.1. Reactivity			
The product is stable at normal handling and s	torage conditions.		
10.2. Chemical stability			
Extremely flammable aerosol.			
10.3. Possibility of hazardous reactions			
The product is stable at normal handling and storage conditions.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperatures.			
10.5. Incompatible materials			
Do not spray on naked flame or any incandescent material. Strong acids. Strong bases.			
10.6. Hazardous decomposition products			
Fume. Carbon monoxide. Carbon dioxide.	Fume. Carbon monoxide. Carbon dioxide.		

SECTION 11: Toxicological information 11.1. Information on toxicological effects : Not classified Acute toxicity Permethrin (52645-53-1) LD50 dermal rat > 2000 mg/kg bodyweight 500.000 mg/kg bodyweight ATE CLP (oral) ATE CLP (dust,mist) 1.500 mg/l/4h d-allethrin (231937-89.6) 1000 mg/kg LD50 oral rat > 2000 mg/kg LD50 dermal rat LC50 inhalation rat (mg/l) > 5.77 mg/l/4h 1000.000 mg/kg bodyweight ATE CLP (oral) 4500.000 ppmv/4h ATE CLP (gases) Hydrocarbons, C11-C12, isoalkanes, <2% aromatics LD50 oral rat > 2000 mg/kg LD50 dermal rat > 2000 mg/kg LC50 inhalation rat (mg/l) 5 mg/l

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	romatics
ATE CLP (vapours)	5.000 mg/l/4h
ATE CLP (dust,mist)	5.000 mg/l/4h
kin corrosion/irritation	: Not classified
	Repeated exposure may cause skin dryness or cracking
erious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
espiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
erm cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
arcinogenicity	: Not classified
	Based on available data, the classification criteria are not met
eproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
becific target organ toxicity (single exposure)	: Not classified
	Based on available data, the classification criteria are not met
pecific target organ toxicity (repeated	: Not classified
posure)	Based on available data, the classification criteria are not met
and an effect of the second	
spiration hazard	: Not classified
	Based on available data, the classification criteria are not met
otential adverse human health effects and mptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water	· Very toxic to aquatic life with long lasting effects.	
Permethrin (52645-53-1)		
LC50 fish 1	0.0089 mg/l 96 hrs	
EC50 Daphnia 1	0.02 mg/l 24 hrs	
LC50 fish 2	0.145 mg/l 96 hrs	
ErC50 (algae)	> 0.011 mg/l 72 hrs	
d-allethrin (231937-89.6)		
LC50 fish 1	0.0000708 g/l	
EC50 Daphnia 1	0.000061 g/l	
Hydrocarbons, C11-C12, isoalkanes, <2% aro	matics	
LC50 fish 1	> 100 mg/l	
LC50 other aquatic organisms 1	> 100 mg/l crustaceans	
EC50 Daphnia 1	> 100 mg/l	
NOEC (chronic)	> 0.1 - 1 mg/l	
12.2. Persistence and degradability		
INSECTROL INSECT KILLER		
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
INSECTROL INSECT KILLER		
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
Additional information	Avoid release to the environment	

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SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations	: This product is for amateur use and can be disposed of as normal household waste. However, if used in a place of work, any product and empty container must be disposed of as controlled waste.	
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information	n	
In accordance with ADR / RID / IMDG / IATA	/ ADN	
14.1. UN number		
UN-No. (ADR)	: 1950	
UN-No. (IATA)	: 1950	
UN-No. (IMDG)	: 1950	
UN-No. (ADN)	: 1950	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: AEROSOLS	
Proper Shipping Name (IATA)	: Aerosols, flammable	
Proper Shipping Name (IMDG)	: AEROSOLS	
Proper Shipping Name (ADN)	: AEROSOLS	
Transport document description (ADR)	: UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	
14.3. Transport hazard class(es)		
Class (ADR)	: 2	
Classification code (ADR)	: 5F	
Class (IATA)	: 2	
Class (IMDG)	: 2	
Class (ADN)	: 2	
Classification code (ADN)	: 5F	
Danger labels (ADR)	: 2.1,	
Division (IATA)	: 2.1	
Hazard labels (IATA)	: 2.1,	
Danger labels (IMDG)	: 2.1,	
Danger labels (ADN)	: 2.1,	
14.4. Packing group		

Not applicable

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14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available.
14.6. Special precautions for user	
14.6.1. Overland transport	
Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
14.6.2. Transport by sea	
Special provisions (IMDG)	: 63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP02
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and segregation (IMDG)	: Protected from sources of heat For AEROSOLS with a maximum capacity of 1 litre: Category A. Segregation as for class 9 but 'Separated from' class 1 except division 1.4. For AEROSOLS with a capacity above 1 litre: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters. Segregation as for the appropriate sub-division of class 2.
14.6.3. Air transport	
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
PCA packing instructions (IATA)	: 203
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA max net quantity (IATA)	: 75kg
PCA Excepted quantities (IATA)	: E0
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L
14.6.4. Inland waterway transport	
Special provisions (ADN)	: 19, 327, 344, 625
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1
Carriage prohibited (ADN)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

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Contains no REACH Annex XIV substances

Type of product (Biocide)

18 - Insecticides, acaricides and products to control other arthropods

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and/or instructions before use.
Other information	: None.
Full text of R-, H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Liquefied gas	Gases under pressure : Liquefied gas
Muta. 1B	Germ cell mutagenicity, Category 1B
Press. Gas	Gases under pressure
Skin Sens. 1	Sensitisation — Skin, category 1
H220	Extremely flammable gas
H222	Extremely flammable gas
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H304 H317	May be fatal if swallowed and enters airways
	May cause an allergic skin reaction
H332	Harmful if inhaled
H340	May cause genetic defects
H350	May cause cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
EUH066	Repeated exposure may cause skin dryness or cracking
EUH208	Contains . May produce an allergic reaction
R12	Extremely flammable
R20/22	Harmful by inhalation and if swallowed
R22	Harmful if swallowed
R43	May cause sensitisation by skin contact
R45	May cause cancer
R46	May cause heritable genetic damage
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed

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F+	Extremely flammable
Ν	Dangerous for the environment
Xn	Harmful

RI - SDS EU (REACH Annex II)

Before using any product, ensure that you read and understand its label.

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