

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

1.1. Product identifier

Product form : Mixture
Product name : Zerox One Shot
Product Code Pelsis : ZOS02,ZOS07
Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
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

Pelsis Belgium
Industrieweg 15
2880 Bornem - Belgium
T 0032(0)3 886 22 11 - F 0032(0)3 886 24 60
info@pelsis.be - www.pelsis.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111 - NHS 24 (Ecosse)		111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229
Skin corrosion/irritation, Category 2 H315
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger
Hazardous ingredients : acetone; propan-2-one; propanone; Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic
Hazard statements (CLP) :
H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP) :
P102 - Keep out of reach of children.
P210 - Keep away from heat/open flames/hot surfaces- No smoking.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing spray.
P280 - Wear protective gloves.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic	(EC-No.) 927-510-4 (REACH-no) 01-2119475515-33	50 - 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
trans-1,3,3,3-Tetrafluoroprop-1-ene	(CAS-No.) 29118-24-9 (EC-No.) 471-480-0 (REACH-no) 01-0000019758-54	40-60	Press. Gas (Liq.), H280
piperonyl butoxide	(CAS-No.) 51-03-6 (EC-No.) 200-076-7 (REACH-no) 01-2119537431-46	2,4	Aquatic Acute 1, H400
acetone; propan-2-one; propanone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	<= 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide	(CAS-No.) 89997-63-7 (EC-No.) 289-699-3	0,3	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

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	: Fresh air, rest. Call an ambulance, hospitalisation is necessary. Show label of packaging. Artificial respiration can be necessary.
First-aid measures after skin contact	: Rinse skin with plenty of water or take a shower for about 15 minutes. Remove contaminated clothing and shoes. Seek medical advice immediately and show label, package or leaflet.
First-aid measures after eye contact	: Rinse with plenty of water for 10 minutes. Rinse AWAY from the eye that has not been contaminated. If contact lenses are easy to remove, remove them first then clean. Seek medical advice and show container or label.
First-aid measures after ingestion	: Call the emergency help centre and ask if ingestion of active coal is advised. Rinse mouth. Seek medical advice immediately and show container or label.

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

Symptoms/effects after inhalation	: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: 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

Prehospital: symptomatic treatment. Contact the Anti-Poison center for further treatment in hospital.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol. No naked flames.
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Explosion hazard : On heating there is a risk of a build-up of pressure in hermetically sealed containers or tanks.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Use only in well-ventilated areas. Avoid contact with skin and eyes. Do not breathe spray. No naked flames, sparks, and do not smoke.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Not in groundwater, surfacewater or sewerage. For a large spillage, contain the spillage by bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see item 8. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe aerosol. Avoid prolonged or repeated contact with skin. No open flames. No smoking. Rapid evaporation of the liquid may cause frostbite.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Store in dry, cool, well-ventilated area. Avoid ignition sources. Aerosol. Following use, do not pierce or burn the packaging, even if it is empty. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Incompatible products : Strong bases. Strong acids.

Storage temperature : < 50 °C

Storage area : Store away from heat.

Packaging materials : Aerosol. Store in original packaging.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

acetone; propan-2-one; propanone (67-64-1)

EU - Occupational Exposure Limits

Local name	Acetone
IOELV TWA (mg/m ³)	1210 mg/m ³
IOELV TWA (ppm)	500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Use rubber gloves

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Skin and body protection:

Wear suitable protective clothing

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Aerosol.
Appearance	: Aerosol.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: < 0 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable gas.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,64 g/cm ³
Solubility	: No data available
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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

In use, may form flammable/explosive vapour-air mixture. Vapours are heavier than air and may spread along floors. Flash back possible over important distance.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral	> 2001 mg/kg
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LD50 dermal rat	> 2001 mg/kg
LC50 inhalation rat (mg/l)	5,5 g/m ³
ATE CLP (vapours)	5,5 mg/l/4h
ATE CLP (dust,mist)	5,5 mg/l/4h

piperonyl butoxide (51-03-6)

LD50 oral rat	≈ 4570 mg/kg male
LD50 oral	≈ 7220 mg/kg female
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5900 mg/l (4h)

Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic

LD50 oral rat	≈ 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg
LC50 inhalation rat (mg/l)	23,3 mg/l/4h

acetone; propan-2-one; propanone (67-64-1)

LD50 oral rat	5800 mg/kg
LD50 dermal rat	> 15800 mg/kg
LC50 inhalation rat (mg/l)	76 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable
Additional information	: Causes skin irritation.
Serious eye damage/irritation	: Not classified pH: Not applicable
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.
Additional information	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Vaporizer	Aerosol
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: toxic to bees.
Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.

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piperonyl butoxide (51-03-6)

LC50 fish 1	≈ 3,94 mg/l (96h) Cyprinodon variegatus
EC50 Daphnia 1	≈ 0,51 mg/l Daphnia magna
ErC50 (algae)	≈ 2,09 mg/l Selenastrum capricornutum

Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic

EC50 Daphnia 1	3 mg/l
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acetone; propan-2-one; propanone (67-64-1)

LC50 fish 1	5540 mg/l (Oncorhynchus mykiss, 96h)
EC50 Daphnia 1	8800 ml/l (Daphnia magna, 48h)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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piperonyl butoxide (51-03-6)

Log Pow	4,8 (20°C - pH 7)
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Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide (89997-63-7)

Log Pow	> 4
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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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Completely empty the containers until no more gases. Container under pressure. Do not drill or burn even after use. Dispose of this material and its container to hazardous or special waste collection point.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name		
AEROSOLS	AEROSOLS	Aerosols, flammable
Transport document description		
UN 1950 AEROSOLS , 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
2.1	2.1	2.1

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14.4. Packing group

Not applicable	Not applicable	Not applicable
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14.5. Environmental hazards

Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : No	Dangerous for the environment : Yes
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No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP02
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

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

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

14.7. Transport in bulk according to Annex II of Marpol 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code	Applicable on
3.	Zerex One Shot ; acetone; propan-2-one; propanone ; piperonyl butoxide ; Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic
3(a)	acetone; propan-2-one; propanone ; Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic

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3(b)	acetone; propan-2-one; propanone ; Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic
3(c)	piperonyl butoxide ; Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic
40.	Zerox One Shot ; acetone; propan-2-one; propanone ; Hydrocarbons, C7, n-alkanes, iso alkanes, cyclic

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Authorisation number of the biocide for Belgium: BE-REG-00202 (Lux:192/14/L)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision - See : *.

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.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H222	Extremely flammable aerosol.
H225	Highly 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	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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