

according to Regulation (EC) No. 1907/2006

0890 25 - Active Window Glass Cleaner 500ml

Version 2.2 Revision Date 26.05.2015 Print Date 28.05.2015 IE / EN

Date of last issue: 03.02.2015 Date of first issue: 03.05.2012

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

1.1 Product identifier

Commercial Product Name : Active Window Glass Cleaner 500ml

Product code : 0890 25 SDS-Identcode : 10043187

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

Use of the Substance/Mixture : Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company : WÜRTH IRELAND LTD.

Monaclinoe Ind. Est. Ballysimon Road

Limerick Ireland

Telephone : +353 61 430200 Telefax : +353 61 412428

Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

National Chemical Emergency Centre

+44 (0)870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable R12: Extremely flammable.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms

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!

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition

source.

P251 Do not pierce or burn, even after use. P280 Wear eye protection/ face protection.

Response:

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Storage:

P410 + P412 Protect from sunlight. Do not expose to tempera-

tures exceeding 50 °C/ 122 °F.

Additional Labelling:

EUH208 Contains: (R)-p-mentha-1,8-diene

May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification Classification		Concentration	
	EC-No.	(67/548/EEC)	(1272/2008/EC)	[%]	



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	Registration number			
isopropanol	67-63-0 200-661-7	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 12,5
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5	R10 Xi; R38 R43 N; R50/53 Xn; R65	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,2

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where possi-

ble). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take

off contaminated clothing and shoes immediately.

If inhaled : If breathed in, move person into fresh air. In the case of inhalation of

aerosol/mist consult a physician if necessary. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is diffi-

cult, give oxygen.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of

water. Do NOT use solvents or thinners. If skin irritation persists, call

a physician.

In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In

the case of contact with eyes, rinse immediately with plenty of water

and seek medical advice.

If swallowed : If swallowed, seek medical advice immediately and show this con-

tainer or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No data available



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4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for

firefighters

: In the event of fire, wear self-contained breathing apparatus. Use

personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures

that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. If the temperature rises there is danger of the vessels bursting due to the high

vapor pressure.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions



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Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Limit the stocks at work place.

Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Take precautionary measures against static discharges. Do not allow con-

tact with air.

Advice on protection against fire

and explosion

Normal measures for preventive fire protection. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do

not smoke. No sparking tools should be used. Electrical equipment

should be protected to the appropriate standard.

Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers

: Store in original container. BEWARE: Aerosol is pressurized. Keep away from heat. Keep away from direct sunlight. Do not open by force or throw into fire even after use. Do not spray on flames or redhot objects. Keep containers tightly closed in a cool, well-ventilated

place. Protect from frost, heat and sunlight. Please observe the storage instructions for aerosols!

Advice on common storage

 Keep away from food, drink and animal feedingstuffs. Incompatible with acids. Do not store together with oxidizing and self-igniting prod-

ucts.

Other data : No decomposition if stored and applied as directed.



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7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Control parameters	Basis	Update
isopropanol	67-63-0	OELV - 8 hrs (TWA): 200 ppm Sk, OELV - 15 min (STEL): 400 ppm Sk,	IE OEL	2007-08-17
butane	106-97-8	OELV - 8 hrs (TWA): 1.000 ppm	IE OEL	2010-04-30
propane	74-98-6	OELV - 8 hrs (TWA): 1.000 ppm Asphx,	IE OEL	2010-04-30

Other information on limit values: see chapter 16

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : not required

<u>Eye protection</u>: In case of splash hazard, please wear protective goggles.



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<u>Skin and body protection</u>: Flame retardant antistatic protective clothing.

Choose body protection according to the amount and concentration

of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety prac-

tice.

General industrial hygiene practice.

Do not inhale aerosol.

Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Follow the skin protection plan.

Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respec-

tive authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Aerosol containing a liquefied gas

Propellant : butane, isobutane, propane

Colour : colourless Odour : like fruit

Odour Threshold : No data available

Flash point : 37 °C

Ignition temperature

Active ingredient

: No data available

No data available

Thermal decomposition : No data available

Lower explosion limit : No data available

Lower explosion limit : No data available
Upper explosion limit : No data available
Explosive properties : No data available

Flammability : solid / gaseous: Extremely flammable aerosol.

Oxidizing properties : No data available Auto-ignition temperature : No data available



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Burning number : No data available Molecular weight : No data available

pH : 10

Vapour pressure : Not applicable
Density : 0,89 g/cm3 at 20 °C

Bulk density : No data available Water solubility : completely soluble

Partition coefficient: n-

octanol/water

: No data available

Solubility in other solvents No data available Viscosity, dynamic No data available No data available Viscosity, kinematic No data available Flow time Impact sensitivity No data available No data available Relative vapour density No data available Surface tension Evaporation rate No data available Minimum ignition energy No data available Acid number No data available Refraction index No data available Miscibility in water : No data available Solvent separation test : No data available

9.2 Other information

None known.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.

Vapours may form explosive mixtures with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.



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10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids

10.6 Hazardous decomposition products

Hazardous decomposition prod-

ucts

Build-up of dangerous/toxic fumes possible in cases of fire/high tem-

perature

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity:

isopropanol : LD50 Rat: 5.045 mg/kg

(R)-p-mentha-1,8-diene : LD50 Rat, female: > 2.000 mg/kg

Acute inhalation toxicity:

isopropanol : LC50 Rat: 46,5 mg/l

Exposure time: 4 h

Acute dermal toxicity:

isopropanol : LD50 Rabbit: 12.800 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

(R)-p-mentha-1,8-diene : Species: Rabbit

irritating

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

isopropanol : Irritating to eyes.

(R)-p-mentha-1,8-diene : Species: Rabbit



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No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Sensitisation:

(R)-p-mentha-1,8-diene : Species: Mouse

Result: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Germ cell mutagenicity

Genotoxicity in vitro:

(R)-p-mentha-1,8-diene : Type: Chromosome aberration test in vitro

with and without metabolic activation

Result: negative

Method: OECD Test Guideline 473

Genotoxicity in vivo:

 $\hbox{(R)-p-mentha-1,8-diene} \qquad \qquad : \quad \hbox{Test species: Rat} \\$

Sex: males

Application Route: Oral

Dose: 0, 1000, 2000 mg/kg bw

Result: negative

Carcinogenicity

(R)-p-mentha-1,8-diene : Species: Mouse, males

Application Route: Oral Exposure time: 2 Number of exposures: 5

Species: Mouse, females Application Route: Oral Exposure time: 2 Number of exposures: 5

Reproductive toxicity

No data available

Teratogenicity

No data available

STOT - single exposure



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isopropanol : May cause drowsiness or dizziness.

STOT - repeated exposure

(R)-p-mentha-1,8-diene : NOAEL: Lowest observed effect level: Rat, females: 600 mg/kg

> bw/day 1200 mg/kg bw/day Application Route: Oral Exposure time: 13 w

Number of exposures: Once per day; 5 days/week

Dose: 0 - 2400 mg/kg bw/day

Lowest observed effect level: Rat, males: 150 mg/kg bw/day

Exposure time: 13 w

Number of exposures: Once per day; 5 days/week

Dose: 0 - 2400 mg/kg bw/day

Aspiration hazard

Aspiration toxicity

(R)-p-mentha-1,8-diene : May be fatal if swallowed and enters airways.

Neurological effects

No data available

Toxicology Assessment

Toxicology, Metabolism, Distribution

No data available

Acute effects

No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

isopropanol : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l

Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 750 µg/l (R)-p-mentha-1,8-diene

Exposure time: 96 h

Method: OECD Test Guideline 203



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Toxicity to daphnia and other aquatic invertebrates

isopropanol : EC50 (Daphnia magna (Water flea)): 13.299 mg/l

Exposure time: 48 h

(R)-p-mentha-1,8-diene : EC50 (Daphnia magna (Water flea)): 0,36 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae

(R)-p-mentha-1,8-diene : NOEC (Desmodesmus subspicatus (green algae)): 2,62 mg/l

Exposure time: 72 h

Test Method: Growth inhibition Method: OECD Test Guideline 201

ErC50 (Desmodesmus subspicatus (green algae)): 8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to bacteria

(R)-p-mentha-1,8-diene : EC50 : 209 mg/l

Exposure time: 3 h

Test Method: Respiration inhibition of activated sludge

Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

(R)-p-mentha-1,8-diene : NOEC: 0,115 mg/l

Exposure time: 16 d

Species: Daphnia (water flea)

12.2 Persistence and degradability

Biodegradability

(R)-p-mentha-1,8-diene : Concentration: 2 mg/l

Result: Readily biodegradable

Biodegradation: 80 % Exposure time: 28 d

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil



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No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information

: The product should not be allowed to enter drains, water courses or the soil.

: The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a deter-

gent manufacturer. No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Advice on disposal and packag-

: Disposal:

na

In accordance with local and national regulations. This material and

its container must be disposed of as hazardous waste.

Waste codes should be assigned by the user based on the applica-

tion for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):

160504, gases in pressure containers (including halons) containing

dangerous substances

Waste key (used product):

160504, gases in pressure containers (including halons) containing

dangerous substances

Disposal of uncleaned packag-

ing

Waste key (uncleaned packaging):

150110, packaging containing residues of or contaminated by dan-

gerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Please ensure aerosol cans are sprayed completely empty (including propellant) Containers that have not been



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emptied in compliance with regulations are regarded as hazardous waste. Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN : 1950 ADR : 1950 RID : 1950 IMDG : 1950 IATA : 1950

14.2 Proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

IATA : AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN

Classification Code : 5F Labels : 2.1

ADR

Classification Code : 5F
Labels : 2.1
Limited quantity : 1,00 L
Tunnel restriction code : (D)

RID

Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1
Limited quantity : 1,00 L

IMDG

Labels : 2.1 EmS Number : F-D, S-U

IATA

Packing instruction (cargo air- : 203

craft)



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Packing instruction (passenger :

aircraft)

Packing instruction (LQ) : Y203 Labels : 2.1

14.5 Environmental hazards

ADN

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

see chapter: 6, 7 and 8

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

VOC : Directive 2010/75/EU of 24 November 2010 on industrial emissions

(integrated pollution prevention and control)

23.80 %

VOC content less water: 212 g/l

Seveso II - Directive : Update: Quantity 1 Quantity 2

2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Extremely flammable 10 t 50 t

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Update:

FLAMMABLE AEROSOLS 150 t 500 t



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200 t

50 t

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Update:

Liquefied extremely flamma-

ble gases (including LPG)

and natural gas

In accordance with Regulation (EC) No. 648/2004 on deter-

gents

5 - < 15%: aliphatic hydrocarbons Other constituents: perfumes

preservation agents:

morpholine

Allergy-causing fragrances: (R)-p-mentha-1,8-diene BENZYL ALCOHOL

National legislation

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.

Further information : Reserved for industrial and professional use.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.

Full text of H-Statements referred to under sections 2 and 3.



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H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H229 Pressurised container: May burst if heated. 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.

Other information

Asphx Gaseous chemical substances which may not produce significant physiological effects in

the exposed employee, but when present in high oncentrations will act as simple asphyxi-

ants

Sk Substances which have the capacity to penetrate intact skin when they come in contact

with it, and be absorbed into the body

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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