



SAFETY DATA SHEET

Safety Glasses Cleaning Wipes pk50 Wet/Wet

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name Safety Glasses Cleaning Wipes pk50 Wet/Wet
Product number ASGCS50, ZA

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

Identified uses Cleaning agent.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier AF INTERNATIONAL. A division of HK WENTWORTH LTD
 ASHBY PARK
 COALFIELD WAY
 ASHBY de la ZOUCH
 LEICESTERSHIRE. LE65 1JR
 UNITED KINGDOM
 +44 (0) 1530 419600
 +44 (0) 1530 416640
 info@hkw.co.uk

1.4. Emergency telephone number

Emergency telephone +44 1865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

Hazard statements EUH208 Contains 1,2-Benzisothiazol-3(2H)-one, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
Precautionary statements P102 Keep out of reach of children.
Detergent labelling < 5% perfumes, Contains BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Composition comments None of the ingredients are required to be listed.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
Skin contact	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	Use protective equipment appropriate for surrounding materials.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known. Spray/mists may cause respiratory tract irritation.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin contact	No specific symptoms known. May cause discomfort.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically.
Specific treatments	No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

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Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No specific recommendations. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions No specific recommendations.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

2-Butoxyethanol

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³

Sk

1-Methoxy-2-propanol

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Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

Sk

Ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

Diethyl phthalate

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

Short-term exposure limit (15-minute): WEL 10 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific hand protection recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid-impregnated wipe.
Colour	Colourless.
Odour	Alcoholic.
Odour threshold	Not available.
pH	pH (concentrated solution): 5-7
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.

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Vapour pressure	2.35 kPa @ 20°C
Vapour density	Not available.
Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

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Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

Contains a substance/a group of substances which may cause cancer. IARC Group 1
Carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

No specific symptoms known. Spray/mists may cause respiratory tract irritation.

Ingestion

No specific symptoms known. May cause discomfort if swallowed.

Skin contact

No specific symptoms known. May cause discomfort.

Eye contact

No specific symptoms known. May be slightly irritating to eyes.

Route of entry

Ingestion Inhalation Skin and/or eye contact

Target organs

No specific target organs known.

Toxicological information on ingredients.

2-Butoxyethanol

Acute toxicity - oral

**Acute toxicity oral (LD₅₀
mg/kg)** 1,746.0

Species Rat

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Notes (oral LD₅₀)	REACH dossier information. Harmful if swallowed.
ATE oral (mg/kg)	1,746.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	cATpE: Converted Acute Toxicity Point Estimate. Harmful in contact with skin.
ATE dermal (mg/kg)	1,100.0
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	cATpE: Converted Acute Toxicity Point Estimate. Harmful if inhaled.
ATE inhalation (vapours mg/l)	11.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). REACH dossier information. Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 mL, 24 hours, Rabbit Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEC 125 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 50 ppm, Inhalation, Rabbit REACH dossier information. Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL <69 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

1-Methoxy-2-propanol

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	3,739.0
Species	Rat

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Notes (oral LD₅₀)	LD ₅₀ 3739 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
ATE oral (mg/kg)	3,739.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	NOEL 3000 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL 1000 ppm, Inhalation, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Teratogenicity: - NOAEL: 1500 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	STOT SE 3 - H336 May cause drowsiness or dizziness. REACH dossier information.
Target organs	Central nervous system Brain
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 919 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

2-Methoxypropanol

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 5710 mg/kg, Oral, Rat Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ 5660 mg/kg, Dermal, Rabbit Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	

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Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation May cause serious eye damage.

Reproductive toxicity

Reproductive toxicity - development Maternal toxicity: - Dose level:: 545 ppm, Inhalation, Rabbit May damage the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H335 May cause respiratory system irritation.

Target organs Respiratory system, lungs

Ethanol

Toxicological effects Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 10470 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ 124.7 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.2 mL, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOEL 15% , Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity - development Maternal toxicity: - NOEL: 16000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOEL ~4000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

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d-Limonene

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 mL, 7 days, Rabbit REACH dossier information. Not irritating.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo DNA damage and/or repair: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard 1.003 cSt @ 25°C/77°F REACH dossier information. Aspiration hazard if swallowed.

Diethyl phthalate

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 11181 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating. REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

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Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Dose level: >1015 mg/kg/day, Dermal, Rat REACH dossier information. No evidence of carcinogenicity in animal studies.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL 3000 ppm, Oral, Rat F1 REACH dossier information. No evidence of reproductive toxicity in animal studies.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 2.5 %, Oral, Rat REACH dossier information. No evidence of reproductive toxicity in animal studies.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 150 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Citral

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 6800 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 15 minutes, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Highly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 mL, 8 days, Rabbit Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL 100 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 1000 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

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Reproductive toxicity - development Developmental toxicity: - NOAEL: 200 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Pin-2(3)-ene

Skin corrosion/irritation

Human skin model test Cell Viability 39.6% 15 minutes REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 mL, 8 days, Rabbit Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

p-Cymene

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ ~4750 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin., Defatting, drying and cracking of skin., REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation. REACH dossier information.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory system irritation.

Target organs Respiratory system, lungs

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

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Ecological information on ingredients.

2-Butoxyethanol

Toxicity	Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.
Acute toxicity - fish	LC ₅₀ , 96 hours: 1474 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1550 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 911 mg/l, Pseudokirchneriella subcapitata
Chronic toxicity - fish early life stage	NOEL, 21 days: >100 mg/l, Brachydanio rerio (Zebra Fish)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 100 mg/l, Daphnia magna

1-Methoxy-2-propanol

Acute toxicity - fish	LC ₅₀ , 96 hours: 20800 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 21100 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 7 days: >1000 mg/l, Selenastrum capricornutum REACH dossier information.

2-Methoxypropanol

Acute toxicity - fish	LC ₅₀ , 96 hours: >1006 mg/l, Fish, Estimated value.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >13205 mg/l, Daphnia magna, Estimated value.

Ethanol

Toxicity	Based on available data the classification criteria are not met.
Acute toxicity - fish	LC ₅₀ , 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 5012 mg/l, Ceriodaphnia dubia
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 11.5 mg/l, Chlorella vulgaris
Chronic toxicity - aquatic invertebrates	NOEC, 9 days: 9.6 mg/l, Daphnia magna

d-Limonene

Toxicity	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.
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Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.72 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.36 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 150 mg/l, Desmodemus subspicatus
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 209 mg/l, Activated sludge
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

Diethyl phthalate

Acute toxicity - fish	LC ₅₀ , 24 hours: 23 mg/l, Onchorhynchus mykiss (Rainbow trout) LC ₅₀ , 48 hours: 14 mg/l, Onchorhynchus mykiss (Rainbow trout) LC ₅₀ , 72 hours: 12 mg/l, Onchorhynchus mykiss (Rainbow trout) LC ₅₀ , 96 hours: 12 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 90 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 23 mg/l, Scenedesmus subspicatus REACH dossier information.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 25 mg/l, Daphnia magna REACH dossier information.

Citral

Toxicity	Based on available data the classification criteria are not met.
Acute toxicity - fish	LC ₅₀ , 96 hours: 6.78 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 6.8 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 103.8 mg/l, Scenedesmus subspicatus

Pin-2(3)-ene

Toxicity	Aquatic toxicity is unlikely to occur.
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p-Cymene

Acute toxicity - fish	LC ₅₀ , 96 hours: 44 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 96 hours: 4.4 mg/l, Americamysis bahia LC ₅₀ , 48 hours: 6.5 mg/l, Daphnia magna

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Acute toxicity - aquatic plants EC₅₀, 96 hours: 49 mg/l, Pseudokirchneriella subcapitata

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.46 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

2-Butoxyethanol

Persistence and degradability The substance is readily biodegradable.

Biodegradation Water - Degradation 90.4%: 28 days

1-Methoxy-2-propanol

Persistence and degradability The substance is readily biodegradable.

Phototransformation Water - DT₅₀ : 3.1 hours
REACH dossier information.

Biodegradation Water - Degradation 96%: 28 days
REACH dossier information.

2-Methoxypropanol

Biodegradation No data available.

Ethanol

Persistence and degradability The substance is readily biodegradable.

Biodegradation Water - Degradation 74%: 10 days

Chemical oxygen demand 1.99 g O₂/g substance

d-Limonene

Persistence and degradability The substance is readily biodegradable.

Phototransformation Water - Half-life : 0.365 hours
Estimated value.

Biodegradation Water - Degradation 80%: 28 days

Diethyl phthalate

Phototransformation Water - DT₅₀ : 111.1 hours
REACH dossier information.

Biodegradation Water - Degradation >99%: 28 days
REACH dossier information.

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Citral

Persistence and degradability	The substance is readily biodegradable.
Phototransformation	Water - DT ₅₀ : 37.35 minutes
Biodegradation	Water - Degradation 85-95%: 28 days

Pin-2(3)-ene

Persistence and degradability	The product is biodegradable.
Phototransformation	Water - DT ₅₀ : 0.44-1.41 hours

p-Cymene

Biodegradation	Water - Degradation 88%: 14 days
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12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not available.

Ecological information on ingredients.

2-Butoxyethanol

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	log Kow: 0.81

1-Methoxy-2-propanol

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	log Pow: <1 REACH dossier information.

2-Methoxypropanol

Bioaccumulative potential	BCF: ~ 1 - 10, Estimated value. Bioaccumulation is unlikely.
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Ethanol

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	log Pow: -0.35

d-Limonene

Bioaccumulative potential	BCF: 1022, Estimated value.
Partition coefficient	log Pow: 4.38

Diethyl phthalate

Bioaccumulative potential	BCF: 13.14 L/Kg, Calculation method. REACH dossier information.
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Partition coefficient log Pow: 2.2 REACH dossier information.

Citral

Bioaccumulative potential BCF: 89.72, Estimated value. The product is not bioaccumulating.

Partition coefficient log Pow: 2.76

Pin-2(3)-ene

Bioaccumulative potential BCF: 1845, Estimated value. Bioaccumulation is unlikely.

Partition coefficient log Pow: 4.487

p-Cymene

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility No data available.

Ecological information on ingredients.

2-Butoxyethanol

Mobility The product is miscible with water and may spread in water systems.

Surface tension 29.53 mN/m @ 20°C

1-Methoxy-2-propanol

Mobility Mobile.

Surface tension 70.7 mN/m @ 20°C

2-Methoxypropanol

Mobility Soluble in water.

Adsorption/desorption coefficient - log Kow: ~ (-0.45) - (-0.49) @ 25°C Calculation method. - Log Koc: ~ 0.0 - 1.13 @ 25°C Calculation method.

Ethanol

Mobility The product is soluble in water.

Surface tension 24.5 mN/m @ 20°C/68°F

d-Limonene

Mobility The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption coefficient Water - Koc: 1984 @ 25°C

Diethyl phthalate

Adsorption/desorption coefficient Water - Log Koc: 2.34 @ 21°C REACH dossier information.

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Henry's law constant 0.0399 Pa m³/mol @ °C Calculation method. REACH dossier information.

Citral

Mobility The product is partly soluble in water and may spread in the aquatic environment.

Adsorption/desorption coefficient Water - Log Koc: 2.169 @ 25°C Estimated value.

Henry's law constant 0.000376 atm m³/mol @ 25°C

Pin-2(3)-ene

Mobility The product is insoluble in water.

Adsorption/desorption coefficient Water - Koc: 2184 @ 25°C Estimated value.

p-Cymene

Mobility Volatile liquid. Slightly soluble in water.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

2-Butoxyethanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

1-Methoxy-2-propanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

2-Methoxypropanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Ethanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

d-Limonene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria. Estimated value.

Diethyl phthalate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Citral

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Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Pin-2(3)-ene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

p-Cymene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. 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 (as amended). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Training advice	Read and follow manufacturer's recommendations.
Issued by	Bethan Massey
Revision date	24/05/2016
Revision	1
SDS number	232
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. EUH208 Contains 1,2-Benzisothiazol-3(2H)-one, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.