

SAFETY DATA SHEET Holts Radweld

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

1.1. Product identifier

Product name Holts Radweld

Product number HREP0021A, HREP0021B, HREP0032A, HREP0061A, 52032020001, HREP0001B,

HREP0002A, HREP0002B, HREP0801A, HREP0901A, RW2GR, RW2HPR, *RW2R*, RW2RU, RW2SKR, 52032020002, RW4BUL, *RW4R*, RW4SFR, RW4SKR, RW9,

52032020022, 52032020089, 52032020100, *52032030002*, 52032030011, 52032030022,

HREP0001A

UFI: 0S46-H0A4-900H-7Y2A

REACH registration notesThis is a MIXTURE; no registration information contained in this document. Holts are classed

as Downstream User.

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

Identified uses Car maintenance product.

1.3. Details of the supplier of the safety data sheet

Supplier A Holts Car Care Product

Holt Lloyd International Ltd

Barton Dock Road

Stretford Manchester

M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854

www.holtsauto.com

Contact person Contact Email address: info@holtsauto.com

1.4. Emergency telephone number

Emergency telephone UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs

National emergency telephone National Poisons Information Service

number City Hospital, Birmingham B187QH, United Kingdom

Telephone: +44 121 507 4123

Email: allistervale@npis.org, sallybradberry@npis.org

www.npis.org

Not Classified

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Health hazards

Physical hazards Not Classified

Environmental hazards Not Classified

Holts Radweld

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P501 Dispose of contents/ container in accordance with national regulations.

UFI: 0S46-H0A4-900H-7Y2A

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANOL 1-5%

CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-

2119457610-43-XXXX

Classification

Flam. Liq. 2 - H225

2-Methoxymethylethoxypropanol <1%

CAS number: 34590-94-8 EC number: 252-104-2 REACH registration number: 01-

2119450011-60-XXXX

Classification

Not Classified

Naphtha (petroleum), Light Aromatic <1%

CAS number: 64742-95-6 EC number: 918-668-5 REACH registration number: 01-

2119455851-35-XXXX

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H335, H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

Triethanolamine <1%

CAS number: 102-71-6 EC number: 203-049-8 REACH registration number: 01-

2119486482-31-XXXX

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

STOT SE 3 - H335

SODIUM HYDROXIDE <1%

CAS number: 1310-73-2 EC number: 215-185-5 REACH registration number: 01-

2119457892-27-XXXX

Classification

Skin Corr. 1A - H314 Eye Dam. 1 - H318

PHOSPHORIC ACID ...%

CAS number: 7664-38-2 EC number: 231-633-2 REACH registration number: 01-

2119485924-24-XXXX

Classification

Skin Corr. 1B - H314 Eye Dam. 1 - H318

(Benzyloxy)methanol

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335

DIETHANOLAMINE <1%

CAS number: 111-42-2 EC number: 203-868-0 REACH registration number: 01-

2119488930-28-XXXX

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Treat symptomatically.

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any

discomfort continues.

Skin contact Remove affected person from source of contamination. Get medical attention if irritation

persists after washing.

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Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention if any discomfort continues.

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 This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact Prolonged contact may cause redness and/or tearing.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, toxic and corrosive gases may be formed. No unusual fire or explosion hazards

noted.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into

containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering

drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in

the original container.

Storage class Chemical 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

ETHANOL

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

Short-term exposure limit (15-minute): WEL

2-Methoxymethylethoxypropanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL Short-term exposure limit (15-minute): WEL 2 mg/m³

PHOSPHORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ Short-term exposure limit (15-minute): WEL 2 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

ETHANOL (CAS: 64-17-5)

DNEL Workers - Inhalation; Long term systemic effects: 950 mg/m³

Workers - Inhalation; Short term local effects: 1900 mg/m³

Workers - Dermal; Long term systemic effects: 343 mg/kg bw/day General population - Inhalation; Long term systemic effects: 114 mg/m³ General population - Dermal; Long term systemic effects: 206 mg/kg bw/day General population - Oral; Long term systemic effects: 87 mg/kg bw/day General population - Inhalation; Short term local effects: 950 mg/m³

PNEC Fresh water; Long term 0.96 mg/l

marine water; Long term 0.79 mg/l Intermittent release; Long term 2.75 mg/l

STP; Long term 580 mg/l

Sediment (Freshwater); Long term 3.6 mg/kg sediment dw Sediment (Marinewater); Long term 2.9 mg/kg sediment dw

Soil; Long term 0.63 mg/kg soil dw

2-Methoxymethylethoxypropanol (CAS: 34590-94-8)

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DNEL Workers - Inhalation; Long term systemic effects: 308 mg/m³

Workers - Dermal; Long term systemic effects: 283 mg/kg bw/day General population - Inhalation; Long term systemic effects: 37.2 mg/m³ General population - Dermal; Long term systemic effects: 121 mg/kg bw/day General population - Oral; Long term systemic effects: 36 mg/kg bw/day

PNEC Fresh water; Long term 19 mg/l

marine water; Long term 1.9 mg/l

STP; Long term 4168 mg/l

Sediment (Freshwater); Long term 70.2 mg/kg sediment dw Sediment (Marinewater); Long term 7.02 mg/kg sediment dw

Soil; Long term 2.74 mg/kg soil dw

Naphtha (petroleum), Light Aromatic (CAS: 64742-95-6)

DNEL Industry - Dermal; : 25 mg/kg bw/day

Industry - Inhalation; : 150 mg/m³
Consumer - Dermal; : 11 mg/kg bw/day
Consumer - Inhalation; : 32 mg/m³
Consumer - Oral; : 11 mg/kg bw/day

Triethanolamine (CAS: 102-71-6)

DNEL Workers - Inhalation; Long term local effects: 1 mg/m³

Workers - Dermal; Long term systemic effects: 7.5 mg/kg bw/day

Workers - Dermal; Long term local effects: 140 µg/cm2

General population - Inhalation; Long term local effects: 0.4 mg/m³

General population - Dermal; Long term systemic effects: 2.66 mg/kg bw/day

General population - Dermal; Long term local effects: 70 µg/cm2

General population - Oral; Long term systemic effects: 3.3 mg/kg bw/day

PNEC Fresh water; Long term 0.32 mg/l

marine water; Long term 0.032 mg/l

STP; Long term 10 mg/l

Sediment (Freshwater); Long term 1.7 mg/kg sediment dw Sediment (Marinewater); Long term 0.17 mg/kg sediment dw

Soil; Long term 0.151 mg/kg soil dw

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Consumer - Inhalation; Long term local effects: 1 mg/m³

Workers - Dermal; Short term local effects: 2 mg/kg/day Workers - Inhalation; Short term local effects: 2 mg/m³ Workers - Inhalation; Long term local effects: 1 mg/m³

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

DNEL Workers - Inhalation; Long term systemic effects: 10.7 mg/m³

Workers - Inhalation; Long term local effects: 1 mg/m³ Workers - Inhalation; Short term local effects: 2 mg/m³

General population - Inhalation; Long term systemic effects: 4.57 mg/m³ General population - Inhalation; Long term local effects: 0.36 mg/m³ General population - Oral; Long term systemic effects: 0.1 mg/kg bw/day

DIETHANOLAMINE (CAS: 111-42-2)

Holts Radweld

DNEL Workers - Inhalation; Long term systemic effects: 0.75 mg/m³

Workers - Inhalation; Long term local effects: 0.5 mg/m³

Workers - Dermal; Long term systemic effects: 0.13 mg/kg bw/day General population - Inhalation; Long term systemic effects: 0.125 mg/m³ General population - Dermal; Long term systemic effects: 0.07 mg/kg bw/day General population - Oral; Long term systemic effects: 0.06 mg/kg bw/day

PNEC Fresh water; Long term 0.021 mg/l

marine water; Long term 0.002 mg/l

STP; Long term 100 mg/l

Sediment (Freshwater); Long term 0.092 mg/kg sediment dw Sediment (Marinewater); Long term 0.009 mg/kg sediment dw

Soil; Long term 1.63 mg/kg soil dw

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or

face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Rubber (natural, latex). To protect hands from chemicals, gloves

should comply with European Standard EN374.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do

not eat, drink or smoke when using this product.

Respiratory protection Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Coloured liquid. Separates on standing

Colour Brown.

Odour Characteristic.

Hq pH (concentrated solution): 8.1

Flash point > 60°C Closed cup.

1.022 @ 20°C Relative density

Solubility(ies) Miscible with water.

9.2. Other information

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Volatile organic compound This product contains a maximum VOC content of 5 %.

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.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

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

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

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

ATE oral (mg/kg) 89,272.96

Acute toxicity - dermal

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

ATE dermal (mg/kg) 267,818.88

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

Based on available data the classification criteria are not met.

ATE inhalation (gases ppm) 624,910.73

ATE inhalation (vapours mg/l) 2,678.19

ATE inhalation (dusts/mists

446.36

mg/l)

Skin corrosion/irritation

Skin corrosion/irritationBased 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 vitroBased on available data the classification criteria are not met.

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

Carcinogenicity

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

Reproductive toxicity

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

Reproductive toxicity -

e toxicity - Does not contain any substances known to be toxic to reproduction.

development

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation No specific health hazards known.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact Prolonged and frequent contact may cause redness and irritation.

Eye contact Prolonged contact may cause redness and/or tearing.

Acute and chronic health

hazards

No specific health hazards known.

Toxicological information on ingredients.

ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 10,470.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 17,100.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation 124.7

(LC₅₀ vapours mg/l)

Species Rat

Skin corrosion/irritation

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Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye

Causes serious eye irritation.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroDoes not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Entry into the lungs following ingestion or vomiting may cause chemical

pneumonitis.

2-Methoxymethylethoxypropanol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC50) LC50 1667 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye Not irritating

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Holts Radweld

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivoNo information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - Two-generation study - NOAEL 300 ppm, Inhalation, Rat P Two-generation study -

fertility NOAEL 1000 ppm, Inhalation, Rat F1

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

Naphtha (petroleum), Light Aromatic

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

3,492.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 3,160.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

6,193.0

(LC50 vapours mg/l)

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Causes mild skin irritation.

Serious eye damage/irritation

Serious eye Not irritating

damage/irritation

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Holts Radweld

Germ cell mutagenicity

Genotoxicity - in vitroThis substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

SODIUM HYDROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

500.0

mg/kg)

Species Rat

PHOSPHORIC ACID ...%

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2,600.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,740.0

mg/kg)

Species Rabbit

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye Causes serious eye damage.

damage/irritation

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Holts Radweld

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

(Benzyloxy)methanol

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,700.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,500.0

mg/kg)

Species

Rat

ATE dermal (mg/kg)

1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation

502.0

(LC₅₀ dust/mist mg/l)

Species Rat

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye Causes serious eye damage.

damage/irritation

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

DIETHANOLAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅o

1,100.0

mg/kg)

Species Rat

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

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Acute toxicity - dermal

Notes (dermal LD50) Not available.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye Causes

Causes serious eye damage.

damage/irritation
Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative with metabolic activation. Negative without metabolic activation.

Genotoxicity - in vivo Negative.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility

Reproductive toxicity -

development

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Central and/or peripheral nervous system damage. Liver and/or kidney damage.

Aspiration hazard

Aspiration hazard Not relevant.

SECTION 12: Ecological information

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

hazardous effects on the environment.

Ecological information on ingredients.

Naphtha (petroleum), Light Aromatic

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish No information available.

Acute toxicity - aquatic

Not available.

invertebrates

Acute toxicity - aquatic plants Not available.

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Acute toxicity microorganisms Not available.

Acute toxicity - terrestrial Not available.

Chronic aquatic toxicity

Chronic toxicity - fish early life Not available.

stage

Short term toxicity - embryo

Not available.

and sac fry stages

Chronic toxicity - aquatic

Not available.

invertebrates

Ecological information on ingredients.

ETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 13000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 12340 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 48 hours: 12900 mg/l, Selenastrum capricornutum

Acute toxicity -

microorganisms

EC₅₀, 4 hours: 5800 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 24 days: 0.08 mg/l, Pimephales promelas (Fat-head Minnow)

life stage

Chronic toxicity - aquatic

invertebrates

NOEC, 10 days: 9.6 mg/l, Daphnia magna

2-Methoxymethylethoxypropanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 1000 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 1919 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: > 1000 mg/l, Selenastrum capricornutum

Acute toxicity -

microorganisms

EC10, 18 hours: 4168 mg/l, Pseudomonas putida

Naphtha (petroleum), Light Aromatic

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 3.2 mg/l, Daphnia magna

Holts Radweld

Acute toxicity - aquatic EC₅₀, 72 hours: 2.9 mg/l, Algae

plants NOEC, 71 hours: 1 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 28 days: 1.23 mg/l, Oncorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic NOEC, 21 days: 2.14 mg/l, Daphnia magna

invertebrates

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 33-189 hours: 96 mg/l, Fish

LC₅₀, 45.5 hours: 96 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC₅₀, 40-240 hours: 48 mg/l, Daphnia magna

PHOSPHORIC ACID ...%

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 138 mg/l, Gambusia affinis

LC₅₀, 96 hours: 3-3.25 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

ErC50, 72 hours: > 100 mg/l, Desmodesmus subspicatus NOEC, 72 hours: 100 mg/l, Desmodesmus subspicatus

Acute toxicity -EC₅₀, : 270 mg/l, Activated sludge

microorganisms

(Benzyloxy)methanol

Acute aquatic toxicity

LC₅₀, 96 hours: 81.5 mg/l, Fish Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 43 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 17.7 mg/l, Scenedesmus subspicatus

DIETHANOLAMINE

Acute aquatic toxicity

LC₅₀, 96 hours: 460 mg/l, Oncorhynchus mykiss (Rainbow trout) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 30.1 mg/l, Ceriodaphnia dubia

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 9.5 mg/l, Pseudokirchneriella subcapitata

Acute toxicity -

microorganisms

EC10, 30 minutes: > 1000 mg/l, Activated sludge

Holts Radweld

Chronic aquatic toxicity

Chronic toxicity - aquatic NOEC, 21 days: 1.05 mg/l, Daphnia magna

invertebrates

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

Ecological information on ingredients.

ETHANOL

Persistence and

degradability

Rapidly degradable

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Biological oxygen demand 1000 mg/g

Chemical oxygen demand 1900 mg/g

2-Methoxymethylethoxypropanol

Persistence and

degradability

Rapidly degradable

Naphtha (petroleum), Light Aromatic

Biodegradation Rapidly degradable

Water - Degradation 78%: 28 days

(Benzyloxy)methanol

Biodegradation Rapidly degradable

Water - Degradation 100%: 18 days

DIETHANOLAMINE

Biodegradation Rapidly degradable

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

ETHANOL

Partition coefficient log Pow: -0.35

2-Methoxymethylethoxypropanol

Bioaccumulative potential The product is not bioaccumulating.

Naphtha (petroleum), Light Aromatic

Partition coefficient log Pow: < 4.5

SODIUM HYDROXIDE

Bioaccumulative potential No potential for bioaccumulation.

Holts Radweld

PHOSPHORIC ACID ...%

Bioaccumulative potential Not relevant.

(Benzyloxy)methanol

Partition coefficient log Pow: 0.3

12.4. Mobility in soil

Mobility The product contains substances which are water-soluble and may spread in water systems.

Ecological information on ingredients.

ETHANOL

Mobility Mobile.

Henry's law constant 3.3 x 10E-6 atm m³/mol @ °C

Surface tension 24.5 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvBThis product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

2-Methoxymethylethoxypropanol

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

assessment

Naphtha (petroleum), Light Aromatic

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

assessment

SODIUM HYDROXIDE

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

assessment

PHOSPHORIC ACID ...%

Results of PBT and vPvB Not relevant.

assessment

(Benzyloxy)methanol

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

assessment

DIETHANOLAMINE

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

assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methodsDispose 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 Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EU legislation 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).

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 2015/830 of 28 May 2015.

Authorisations (Annex XIV Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ATE: Acute Toxicity Estimate.

BOD: Biochemical Oxygen Demand.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

EC₅₀: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods. LC₅o: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

vPvB: Very Persistent and Very Bioaccumulative.

Revision date 11/05/2020

Revision 2

Supersedes date 26/04/2017

SDS number 14894

Hazard statements in full H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.