



Prestone



SAFETY DATA SHEET Pink -37 RTU Coolant

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

1.1. Product identifier

Product name	Pink -37 RTU Coolant
Product number	HAFR0006A, HAFR0005A, HAFR0012A
UFI	UFI: 8MM6-20QT-9005-P0VG
EU REACH registration notes	This 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. Antifreeze liquid.
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1.3. Details of the supplier of the safety data sheet

Supplier	Holt Lloyd Services 52 Rue des 40 Mines, 60000 – Allonne, France Phone: +33 (0)3 64 99 00 32 info@holtsauto.com
Contact person	Contact email address: info@holtsauto.com
Manufacturer	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

1.4. Emergency telephone number

Emergency telephone	UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs
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Pink -37 RTU Coolant

National emergency telephone number +43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)
 +32022649636; info@poisoncentre.be (Belgium)
 +359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria)
 +38514686910; toksikologija@hzjz.hr (Croatia)
 +35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus)
 +420267082257; biocidy@mzcr.cz (Czech Republic)
 +45 72 54 40 00; mst@mst.dk (Denmark)
 +372 794 3500; clp@terviseamet.ee, info@terviseamet.ee (Estonia)
 +358 5052 000; kirjaamo@tukes.fi (Finland)
 + 33 3 83 85 21 92; bnpc@chru-nancy.fr (France)
 +49-30-18412-0; bfr@bfr.bund.de (Germany)
 +302106479250; +302106479450; devxp.gcs@aade.gr, environment.gcs@aade.gr (Greece)
 +36 (1) 476 1135; clp.ca@nnk.gov.hu (Hungary)
 +354 543 22 22; eitur@landspitali.is (Iceland)
 +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie (Ireland)
 +390649906140; inscweb@iss.it (Italy)
 +371 67032600; lvgmc@lvgmc.lv (Latvia)
 +370 70662008; aaa@aaa.am.lt (Lithuania)
 +320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu (Luxembourg)
 +356 2395 2000; info@mccaa.org.mt (Malta)
 +31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands)
 +4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no (Norway)
 +48 42 2538 400; biuro@chemikalia.gov.pl (Poland)
 +351 800 250 250; ciav.tox@inem.pt (Portugal)
 +40213183606; infotox@insp.gov.ro (Romania)
 +7 495 621 6885; +7 495 628 1687; rtiac@mail.ru; rtiac2003@yahoo.com (Russia)
 +421 2 5465 2307; ntic@ntic.sk (Slovakia)
 + 386 1 522 1293; gp.ukc@kclj.si (Slovenia)
 +34 917689800; intcf.doc@justicia.es (Spain)
 +46104566750; giftinformation@gic.se (Sweden)
 +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 STOT RE 2 - H373
Environmental hazards	Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H302 Harmful if swallowed.
 H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

Pink -37 RTU Coolant

Precautionary statements P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
 P501 Dispose of contents/ container in accordance with national regulations.

UFI UFI: 8MM6-20QT-9005-P0VG

Contains ETHANEDIOL

Supplementary precautionary statements P330 Rinse mouth.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANEDIOL	30-50%
CAS number: 107-21-1	EC number: 203-473-3
Classification Acute Tox. 4 - H302 STOT RE 2 - H373	
2-Ethylhexanoic Acid	1-5%
CAS number: 149-57-5	EC number: 205-743-6
Classification Repr. 2 - H361d	
SODIUM HYDROXIDE	<1%
CAS number: 1310-73-2	EC number: 215-185-5
Classification Skin Corr. 1A - H314 Eye Dam. 1 - H318	
Neodecanoic acid	<1%
CAS number: 26896-20-8	EC number: 248-093-9
Classification Not Classified	

Pink -37 RTU Coolant

sodium 4(or 5)-methyl-1H-benzotriazolide	<1%
CAS number: 64665-57-2	EC number: 265-004-9
Classification	
Acute Tox. 4 - H302	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Repr. 2 - H361d	
Aquatic Chronic 2 - H411	
PROPAN-1-OL	<1%
CAS number: 71-23-8	EC number: 200-746-9
Classification	
Flam. Liq. 2 - H225	
Eye Dam. 1 - H318	
STOT SE 3 - H336	
Polypropylene Glycol	<1%
CAS number: 25322-69-4	EC number: 500-039-8
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
STOT SE 3 - H335	
Denatonium Benzoate	<1%
CAS number: 3734-33-6	EC number: 223-095-2
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	
KEYSTONE™ OIL RHODAMINE B BASE	<1%
CAS number: 509-34-2	EC number: 208-096-8
Classification	
Acute Tox. 4 - H302	
Eye Irrit. 2 - H319	
Aquatic Chronic 2 - H411	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Pink -37 RTU Coolant

Inhalation	Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Do not induce vomiting. Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

Inhalation	May cause respiratory irritation. May cause drowsiness or dizziness.
Ingestion	Harmful if swallowed.
Skin contact	May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation.
Eye contact	May be slightly irritating to eyes. Prolonged or repeated exposure may cause severe irritation.

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

Notes for the doctor	Treat symptomatically.
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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. Water spray, foam, dry powder or carbon dioxide.
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	None known.
Hazardous combustion products	Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid inhalation of vapours and contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Avoid release to the environment.
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6.3. Methods and material for containment and cleaning up

Pink -37 RTU Coolant

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. 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 inhalation of vapours and contact with skin and eyes. Do not handle broken packages without protective equipment. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food, drink and animal feeding stuffs. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

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

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Sk

SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m³

PROPAN-1-OL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 500 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 625 mg/m³(Sk)

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

ETHANEDIOL (CAS: 107-21-1)

DNEL

Workers - Inhalation; Long term local effects: 35 mg/m³

Workers - Dermal; Long term systemic effects: 106 mg/kg/day

General population - Inhalation; Long term local effects: 7 mg/m³

General population - Dermal; Long term systemic effects: 53 mg/kg/day

PNEC

Fresh water; 10 mg/l

marine water; 1 mg/l

STP; 199.5 mg/l

Sediment (Freshwater); 37 mg/kg

Sediment (Marinewater); 3.7 mg/kg

Soil; 1.53 mg/kg

2-Ethylhexanoic Acid (CAS: 149-57-5)

Pink -37 RTU Coolant

DNEL Workers - Inhalation; Long term systemic effects: 14 mg/m³
 Workers - Dermal; Long term systemic effects: 2 mg/kg bw/day
 General population - Inhalation; Long term systemic effects: 3.5 mg/m³
 General population - Dermal; Long term systemic effects: 1 mg/kg bw/day
 General population - Oral; Long term systemic effects: 1 mg/kg bw/day

PNEC Fresh water; 0.4 mg/l
 Intermittent release; 1 mg/l
 marine water; 0.04 mg/l
 STP; 71.7 mg/l
 Sediment (Freshwater); 4.74 mg/kg sediment dry weight
 Sediment (Marinewater); 0.74 mg/kg sediment dry weight
 Soil; 0.712 mg/kg soil dry weight

SODIUM HYDROXIDE (CAS: 1310-73-2)

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

sodium 4(or 5)-methyl-1H-benzotriazolide (CAS: 64665-57-2)

DNEL Workers - Inhalation; Long term systemic effects: 21.2 mg/m³
 Workers - Dermal; Long term systemic effects: 0.3 mg/kg/day
 General population - Inhalation; Long term systemic effects: 350 µg/m³
 General population - Dermal; Long term systemic effects: 0.01 mg/kg/day
 General population - Oral; Long term systemic effects: 0.01 mg/kg/day

PNEC Fresh water; 0.008 mg/l
 marine water; 20 µg/l
 STP; 39.4 mg/l
 Sediment (Freshwater); 0.117 mg/kg
 Sediment (Marinewater); 0.292 mg/kg
 Soil; 18.7 µg/kg

PROPAN-1-OL (CAS: 71-23-8)

DNEL Workers - Inhalation; Long term systemic effects: 268 mg/m³
 Workers - Inhalation; Short term systemic effects: 1723 mg/m³
 Workers - Dermal; Long term systemic effects: 136 mg/kg/day
 General population - Inhalation; Long term systemic effects: 80 mg/m³
 General population - Dermal; Long term systemic effects: 81 mg/kg/day
 General population - Oral; Long term systemic effects: 61 mg/kg/day

PNEC Fresh water; 6.83 mg/l
 marine water; 0.683 mg/l
 STP; 96 mg/l
 Sediment (Freshwater); 27.5 mg/kg
 Sediment (Marinewater); 2.75 mg/kg
 Soil; 1.49 mg/kg

Polypropylene Glycol (CAS: 25322-69-4)

Pink -37 RTU Coolant

DNEL	Workers - Inhalation; Long term local effects: 10 mg/m ³ Workers - Dermal; Long term systemic effects: 84 mg/kg bw/day General population - Inhalation; Long term systemic effects: 10 mg/m ³ General population - Dermal; Long term systemic effects: 51 mg/kg bw/day General population - Oral; Long term systemic effects: 24 mg/kg bw/day
PNEC	Fresh water; 0.1 mg/l marine water; 0.01 mg/l Intermittent release; 1 mg/l STP; 100 mg/l Sediment (Freshwater); 0.765 mg/kg sediment dry weight Sediment (Marinewater); 0.0765 mg/kg sediment dry weight Soil; 0.109 mg/kg soil dry weight

Denatonium Benzoate (CAS: 3734-33-6)

DNEL	Workers - Inhalation; Long term systemic effects: 4.99 mg/m ³ Workers - Dermal; Long term systemic effects: 1.43 mg/kg/day General population - Inhalation; Long term systemic effects: 0.768 mg/m ³ General population - Dermal; Long term systemic effects: 0.51 mg/kg/day General population - Oral; Long term systemic effects: 0.51 mg/kg/day
PNEC	Fresh water; 0.1 mg/l marine water; 10 µg/l Sediment (Freshwater); 25 mg/kg Sediment (Marinewater); 2.5 mg/kg Soil; 4.96 mg/kg

KEYSTONE™ OIL RHODAMINE B BASE (CAS: 509-34-2)

DNEL	Workers - Inhalation; Long term systemic effects: 12.2 mg/m ³ Workers - Dermal; Long term systemic effects: 3.46 mg/kg/day General population - Inhalation; Long term systemic effects: 1.83 mg/m ³ General population - Dermal; Long term systemic effects: 1.24 mg/kg/day General population - Oral; Long term systemic effects: 1.24 mg/kg/day
PNEC	Fresh water; 3.4 µg/l Intermittent release, Fresh water; 34 µg/l marine water; 0.34 µg/l Intermittent release, marine water; 3.4 µg/l STP; 10 mg/l Sediment (Freshwater); 0.176 mg/kg Sediment (Marinewater); 17.6 µg/kg Soil; 33.1 µg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Pink -37 RTU Coolant

Hand protection	Wear protective gloves. The selected gloves should have a breakthrough time of at least 8 hours. Wear protective gloves made of the following material: Butyl rubber. Chloroprene rubber. Nitrile rubber. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Do not eat, drink or smoke when using this product. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid.
Colour	Pink.
Odour	Characteristic.
pH	pH (concentrated solution): 8.65
Flash point	Not applicable.
Relative density	~1.061 @ 20°C
Solubility(ies)	Soluble in water.

9.2. Other information

Refractive index	1.381
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Strong acids. Strong oxidising agents.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid contact with the following materials: Acids. Oxidising agents.
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10.5. Incompatible materials

Materials to avoid	Acids. Oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂).
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SECTION 11: Toxicological information

Pink -37 RTU Coolant

11.1. Information on toxicological effects

Toxicological effects	No information available.
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	Harmful if swallowed.
ATE oral (mg/kg)	1,041.73
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Contains an ingredient listed as: Repr. 2
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.
Inhalation	May cause respiratory irritation. May cause drowsiness or dizziness.
Ingestion	Harmful if swallowed.
Skin contact	May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation.
Eye contact	May be slightly irritating to eyes. Prolonged or repeated exposure may cause severe irritation.
<u>Toxicological information on ingredients.</u>	

Pink -37 RTU Coolant

ETHANEDIOL

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 3500 mg/kg, Dermal, Mouse

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 2.5 mg/l, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

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 Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Three-generation study - NOAEL > 1000 mg/kg bw/day, Oral, Rat F2 Fertility - NOEL 1000 mg/kg bw/day, Oral, Mouse F1

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies.

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 Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.

Aspiration hazard

Aspiration hazard Not relevant.

Inhalation No specific health hazards known.

Ingestion Harmful if swallowed.

Pink -37 RTU Coolant

Skin contact	May be slightly irritating to skin.
Eye contact	May be slightly irritating to eyes.

2-Ethylhexanoic Acid

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 2043 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC0 0.11 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 800 mg/kg bw/day, Oral, Rat F2 Suspected of damaging 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.

SODIUM HYDROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 500.0

Species Rat

Pink -37 RTU Coolant

Notes (oral LD₅₀)	Not applicable. REACH dossier information.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Not applicable. REACH dossier information.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Not applicable. REACH dossier information.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Causes severe burns.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye damage.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Scientifically unjustified. REACH dossier information.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

sodium 4(or 5)-methyl-1H-benzotriazolide

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	800.0
Species	Rat
Notes (oral LD₅₀)	LD ₅₀ 735 mg/kg, Oral, Rat Harmful if swallowed.
ATE oral (mg/kg)	800.0
<u>Acute toxicity - dermal</u>	

Pink -37 RTU Coolant

Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rabbit
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	No information available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Causes severe burns.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye damage.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising. REACH dossier information.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	No information available.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met. REACH dossier information.
Reproductive toxicity - development	Repr. 2
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

PROPAN-1-OL

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	5,400.0
Species	Rat
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	4,032.0
Species	Rabbit
<u>Acute toxicity - inhalation</u>	

Pink -37 RTU Coolant

Acute toxicity inhalation 33.8
(LC₅₀ vapours mg/l)

Species Rat

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Denatonium Benzoate

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 749 mg/kg, Oral, Rat

Acute toxicity - dermal

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 0.2 mg/l, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity NOAEL 16 mg/kg/day, Oral, Rat No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 60 mg/kg/day, Oral, Rat P, F1 No evidence of reproductive toxicity in animal studies.

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.

KEYSTONE™ OIL RHODAMINE B BASE

Acute toxicity - oral

Pink -37 RTU Coolant

Notes (oral LD₅₀)	LD ₅₀ 500 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rat
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Scientifically unjustified. REACH dossier information.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No adverse effects observed (negative)
Genotoxicity - in vivo	No information available.
<u>Carcinogenicity</u>	
Carcinogenicity	No information available.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	- 720 mg/kg/day, Oral, Rat, QSAR REACH dossier information.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

SECTION 12: Ecological information

Ecotoxicity No information available.

Ecological information on ingredients.

sodium 4(or 5)-methyl-1H-benzotriazole

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Acute aquatic toxicity

Pink -37 RTU Coolant

Acute toxicity - fish No information available.

Acute toxicity - aquatic invertebrates Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - microorganisms Not available.

Acute toxicity - terrestrial Not available.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not available.

Short term toxicity - embryo and sac fry stages Not available.

Chronic toxicity - aquatic invertebrates Not available.

Ecological information on ingredients.

ETHANEDIOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 96 hours: 10940 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₂₀, 30 minutes: 1995 mg/l, Activated sludge
Read-across data.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage LC₅₀, 28 days: > 1500 mg/l, Menidia peninsulae (Tidewater silverside)

Chronic toxicity - aquatic invertebrates EC₅₀, 21 days: > 100 mg/l, Daphnia magna

2-Ethylhexanoic Acid

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 85.4 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 485.1 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates EC₁₀, LC₁₀, NOEC, 21 days: 19.9 mg/l, Daphnia magna

SODIUM HYDROXIDE

Pink -37 RTU Coolant

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 33-189 hours: 96 mg/l, Fish LC ₅₀ , 45.5 hours: 96 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 30 - < 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	Scientifically unjustified.
Acute toxicity - microorganisms	EC10, 2 minutes: 161 mg/l, Tetrahymena Thermophila EC ₅₀ , 15 minutes: 22 mg/l, Photobacterium phosphoreum luminescence inhibition study

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	Not available.
Short term toxicity - embryo and sac fry stages	Not available.
Chronic toxicity - aquatic invertebrates	Not applicable.

sodium 4(or 5)-methyl-1H-benzotriazole

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 180 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: 55 mg/l, Cyprinodon variegatus (Sheepshead minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 8.58 mg/l, Daphnia galeata LC ₅₀ , 48 hours: 55 mg/l, Acartia tonsa
Acute toxicity - aquatic plants	ErC50, 72 hours: 75 mg/l, Pseudokirchneriella subcapitata EC10, 72 hours: 1.18 - 2.86 mg/l, Desmodesmus subspicatus EC ₅₀ , 72 hours: 52 mg/l, Skeletonema costatum EC10, 72 hours: 36 mg/l, Skeletonema costatum EC90, 72 hours: 83 mg/l, Skeletonema costatum NOEC, 72 hours: 30 mg/l, Skeletonema costatum EC10, 7 days: 2.11 mg/l, Lemna minor
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 1060 mg/l, Activated sludge EC10, NOEC, 3 hours: 394 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	EC ₅₀ , 21 days: > 37.6 mg/l, Daphnia magna NOEC, 21 days: 18.4 mg/l, Daphnia magna EC10, 21 days: 0.4 - 0.97 mg/l, Daphnia galeata
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PROPAN-1-OL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 4555 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3644 mg/l, Daphnia magna NOEC, 21 days: > 100 mg/l, Daphnia magna

Pink -37 RTU Coolant

Acute toxicity - aquatic plants IC₅₀, 72 hours: > 1000 mg/l, Algae

Denatonium Benzoate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 500 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 281.556 mg/l, Chlorella vulgaris

Acute toxicity - microorganisms EC₅₀, 15 minutes: 511.58 mg/l, Vibrio fischeri

KEYSTONE™ OIL RHODAMINE B BASE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 50 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.4 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 13.4 mg/l, Desmodosmus subspicatus

Acute toxicity - microorganisms IC₅₀, 3 hours: > 100 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability Expected to be readily biodegradable.

Ecological information on ingredients.

ETHANEDIOL

Persistence and degradability 10 days 90-100% Rapidly degradable

SODIUM HYDROXIDE

Persistence and degradability No data available.

Stability (hydrolysis) Scientifically unjustified.
REACH dossier information.

sodium 4(or 5)-methyl-1H-benzotriazolide

Persistence and degradability Not readily biodegradable.

Phototransformation Air - Half-life : 3.9 days

Stability (hydrolysis) pH4, pH7, pH9 - Degradation 0: 5 days @ 50 +/- 0.5°C

Biodegradation Soil - Half-life : 180 days

Pink -37 RTU Coolant

PROPAN-1-OL

Persistence and degradability The substance is readily biodegradable. 83%; 28 days

Denatonium Benzoate

Persistence and degradability Not readily biodegradable.

Stability (hydrolysis) pH4, pH7, pH9 - Degradation 10%: ~ 5 days @ 50°C
pH 5, pH7, pH9 - Degradation 10%: ~ 5 days @ 25°C
pH 5 -10 - Half-life : ~ 1 year @ 25-50°C

KEYSTONE™ OIL RHODAMINE B BASE

Persistence and degradability Not readily biodegradable.

Biodegradation 0 - 1%
28 days

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Ecological information on ingredients.

ETHANEDIOL

Partition coefficient log Pow: -1.36 QSAR data.

SODIUM HYDROXIDE

Bioaccumulative potential No potential for bioaccumulation.

Partition coefficient No information required. REACH dossier information.

sodium 4(or 5)-methyl-1H-benzotriazolide

Bioaccumulative potential BCF: 2.422 L/kg, QSAR Bioaccumulation is unlikely. REACH dossier information.

Partition coefficient log Pow: 1.087

PROPAN-1-OL

Partition coefficient log Pow: 0.25

KEYSTONE™ OIL RHODAMINE B BASE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 3.649 +/- 0.054 @ 25 deg C

12.4. Mobility in soil

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

Ecological information on ingredients.

sodium 4(or 5)-methyl-1H-benzotriazolide

Pink -37 RTU Coolant

Adsorption/desorption coefficient - Koc: 110 @ 20°C

Denatonium Benzoate

Adsorption/desorption coefficient Soil - Koc: 2466.04 @ 20°C

KEYSTONE™ OIL RHODAMINE B BASE

Adsorption/desorption coefficient Log Koc 2.682 @ 25 deg C Low mobility.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

ETHANEDIOL

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

2-Ethylhexanoic Acid

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

SODIUM HYDROXIDE

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

sodium 4(or 5)-methyl-1H-benzotriazole

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

Denatonium Benzoate

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

KEYSTONE™ OIL RHODAMINE B BASE

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Pink -37 RTU Coolant

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 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).

Authorisations (SI 2020 No. 1577 Annex XIV) No specific authorisations are known for this product.

Restrictions (SI 2020 No. 1577 Annex XVII) 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

Pink -37 RTU Coolant

Abbreviations and acronyms used in the safety data sheet	<p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BOD: Biochemical Oxygen Demand.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>GHS: Globally Harmonized System.</p> <p>IARC: International Agency for Research on Cancer.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>UVCB - Unknown or variable composition, complex reaction products or Biological materials.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Revision date	02/05/2021
Revision	5
Supersedes date	14/08/2021
SDS number	21501
Hazard statements in full	<p>H225 Highly flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

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.