

SAFETY DATA SHEET

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

1.1 Product identifier

Product name: RT Remediact™

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

Relevant identified uses: Bioremediation of soil and groundwater contaminated by hydrocarbons.

Uses advised against: Consumer uses.

1.3 Details of the supplier of the safety data sheet

SpillAway Projects Ltd

37 Underhill

Moulsford

Oxfordshire OX10 9JH

UK

Telephone number: +44(0) 1491 651392

E-mail address: info@spillawayprojects.co.uk

1.4 Emergency telephone number

Emergency telephone number: +44(0)1491 651392 (Only available during office hours).

+44(0)7767 018418

SECTION 2: *Hazards identification*

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP) (as amended)

Product is not classified as hazardous.

2.1.2 Additional information

For full text of EU Hazard Statements: See SECTION 16

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008 (CLP) (as amended)

Pictograms	Not applicable.		
Signal Word	Not applicable.		
Hazard Statements	<i>Not applicable</i>		
Obligatory supplemental information	<i>EUH210</i>	Safety data sheet available on request.	
Precautionary Statements	<i>P280</i>	Wear protective gloves/clothing and eye/face protection.	
	<i>P264</i>	Wash hands thoroughly after handling.	
	<i>P305 + P351 + P338</i>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	<i>P337 + P313</i>	If eye irritation persists: Get medical advice/attention.	

2.3 Other hazards

This mixture does not contain any substances that are assessed to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture:

An aqueous solution containing bacterial cultures, non-ionic surfactant and fragrance.

Hazardous ingredients:

CAS No.	EC No.	Index No.	REACH Registration No.	% (weight)	Name	Classification according to Regulation (EC) No. 1278/2008 (CLP)
64366-70-7	N/A (Polymer)	N/A	N/A	2.5 - <10.	2-Ethyl Hexanol EO-PO Nonionic Surfactant.	Eye Irrit. 2 : H319.

Non-hazardous ingredients:

Not applicable.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this Safety Data Sheet to the first aider/doctor in attendance.

Inhalation :

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately. If unconscious, place in recovery position. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion :

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Get medical attention if adverse health effects persist or are severe.

Skin contact :

Wash skin thoroughly with soap and water. If irritation occurs seek medical advice.

Eye contact :

Immediately flush eyes with plenty of water for 10-15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Protect unharmed eye. If eye irritation persists, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Inhalation :

No specific information. Overexposure is unlikely through this route.

Ingestion :

No specific information.

Skin :

No specific information.

Eyes :

No specific information.

See SECTION 11 for more detailed information on health effects and symptoms.

4.3 Indications of any immediate medical attention and special treatment needed

Notes to physician :

No specific treatment. Treat symptomatically.

Protection of first aid personnel

No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 5: *Firefighting measures*

Product itself is a non-flammable water based material. The following advice applies in case of fire arising in its vicinity.

5.1 Extinguishing media

Suitable :

Use water spray, alcohol-resistant foam or carbon dioxide. Use an extinguishing agent suitable for the surrounding fire.

Not suitable :

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

In combustion may emit toxic fumes.

5.3 Advice for fire-fighters

Special precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: *Accidental release measures*

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes.

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8).

6.2 Environmental precautions

Avoid dispersal of spilled concentrate material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill :

Move containers from spill area. Stop leak if without risk. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill :

Move containers from spill area. Prevent entry of concentrate into sewers, water courses, basements or confined areas. Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations .

Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

Note: see SECTION 1 for emergency contact information, SECTION 8 for personal protection and section 13 for waste disposal.

SECTION 7: *Handling and storage*

7.1 Precautions for safe handling

Avoid contact with eyes and clothing.

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Do not get in eyes or on clothing. Do not ingest. Avoid breathing dust, vapour or mist. Avoid release of concentrate to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Container should be rinsed prior to recycling or disposal.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination by concentrate.

7.3 Specific end use(s)

Not applicable.

SECTION 8: *Exposure controls/personal protection*

8.1 Control parameters

United Kingdom (UK) Occupational Exposure Limits

Not applicable.

Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)

DNELs

No information available.

PNECs

No information available.

8.2 Exposure controls

General

Avoid contact with eyes and clothing.

Hygiene measures :

Ensure that there is sufficient ventilation of the area.

Eye and face protection

Avoid eye contact. If required wear tightly fitting safety goggles or safety glasses that meet EN 166 a/o ANSI Z87.1 standards.

Skin protection

Avoid skin contact. If required use chemical resistant gloves under Standard EN374: Protective gloves against chemicals and micro-organisms. Glove barrier materials may include Butyl rubber, Neoprene, Nitrile/butadiene rubber, Polyethylene or PVC.

Inhalation

Provide a good standard of general ventilation.

SECTION 9: *Physical and chemical properties*

9.1 Information on basic physical and chemical properties

Appearance Physical state Colour	Liquid
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	Translucent Liquid
Odour	Orange Citrus.
Odour threshold	No data available.
pH	6.9 - 7.2
Melting point/freezing point	Circa 0°C
Initial boiling point and boiling range	Circa 100°C
Flash point	Not applicable. Non flammable.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammability or explosion limits Upper Lower	Not applicable.
Vapour pressure	<0.01 mm Hg @20°C.
Vapour density	No data available.
Relative density	Circa 1.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

9.2 Other information

Not applicable.

SECTION 10: *Stability and reactivity*

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Extremes of temperature.

10.5 Incompatible materials

Materials to avoid – strong acids and bases.

10.6 Hazardous decomposition products

No specific information.

SECTION 11: *Toxicological information*

11.1 Information on toxicological effects

No data is available on the product. Based on the hazardous substances in the mixture and their concentration, the product has been assessed according to the calculation method of Regulation (EC) 1272/2008, as amended.

(a) Acute toxicity

Oral

Based on the available data on component substances, the classification criteria for acute oral toxicity are not met.

Dermal

Based on the available data on component substances, the classification criteria for acute dermal toxicity are not met.

Inhalation

Based on the available data on component substances, the classification criteria for acute inhalation toxicity are not met.

Other routes

No data available.

(b) Skin corrosion/irritation

Based on the available data on component substances, the classification criteria for skin corrosion or skin irritation are not met.

(c) Serious eye damage/irritation

Based on the available data on component substances, the classification criteria for serious eye damage or serious eye irritation are not met.

(d) Respiratory or skin sensitization

Based on the available data on component substances, the classification criteria for respiratory or skin sensitization are not met.

(e) Germ cell mutagenicity

Based on the available data on component substances, the classification criteria for germ cell mutagenicity are not met.

(f) Carcinogenicity

Based on the available data on component substances, the classification criteria for carcinogenicity are not met.

(g) Reproductive toxicity

Based on the available data on component substances, the classification criteria for reproductive toxicity are not met.

(h) STOT-single exposure

Based on the available data on component substances, the classification criteria for specific target organ toxicity resulting from a single exposure are not met.

(i) STOT-repeated exposure

Based on the available data on component substances, the classification criteria for specific target organ toxicity resulting from repeated exposure are not met.

(j) Aspiration hazard

Based on the available data on component substances, the classification criteria for aspiration hazard are not met.

Other information

Not applicable.

SECTION 12: *Ecological information*

12.1 Toxicity

No data is available on the product. Based on the hazardous substances in the mixture and their concentration the product has been assessed according to the calculation method of Regulation (EC) 1272/2008.

The product is not classified as dangerous to the environment.

12.2 Persistence and degradability

Substance	Biodegradability
2-Ethyl Hexanol EO-PO Nonionic Surfactant.	Readily biodegradable.

12.3 Bioaccumulative potential

Substance	Bioaccumulative potential
2-Ethyl Hexanol EO-PO Nonionic Surfactant.	No information available.

12.4 Mobility in soil

Substance	Mobility in soil
2-Ethyl Hexanol EO-PO Nonionic Surfactant.	No information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be PBT or vPvB.

12.6 Other adverse effects

No information.

SECTION 13: *Disposal considerations*

13.1 Waste treatment methods

Methods of disposal :

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled concentrate material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste :

The classification of the product does not meet the criteria for a hazardous waste.

SECTION 14: *Transport information*

Product is not classified as dangerous for transport.

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Environmentally hazardous and/or 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

Not applicable.

SECTION 15: *Regulatory information*

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

EU regulations

CLP – Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

REACH Status

The substance(s) in this product has (have) been pre-registered, registered or are exempt according to Regulation (EC) No. 1907/2006 (REACH).

Biocidal Products [Regulation (EU) No 528/2012]

Not applicable.

Detergent Regulation [Regulation (EC) No 648/2004 as amended]

Product ingredients include:-

- 1 - <10 w% non-ionic surfactant.
- Perfume.

SEVESO II Directive 96/82/EC (as amended).

Hazardous Waste Directive [Directive 2008/98/EC as amended].

Product does not meet the criteria for classification as hazardous waste.

UK Regulations

COSHH – Control of Substances Hazardous to Health Regulations 2002 (as amended).

COMAH – Control of Major Accidents Hazards Regulations 1999 (as amended).

15.2 Chemical safety assessment

Chemical safety assessments have been conducted by REACH Registrants for some of the substances listed in Section 3.2.

SECTION 16: *Other information*

Full text of abbreviated H statements

H319	Causes serious eye irritation.
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Full text of classifications (CLP)

Eye Irritant Category 2: H319.

Other abbreviations

PBT	:	Persistent, bioaccumulative and toxic.
vPvB	:	Very persistent and very bioaccumulative.
BCF	:	Bioconcentration factor.
N/A	:	Not applicable.
bw	:	Body weight.
dw	:	Dry weight.

History	
Date of issue/Date of revision	6/7/2019
Date of previous issue	Not applicable ⁽¹⁾
Version	01

SDS compiled according to Commission Regulation (EU) 2015/830.

Note (1) – New SDS for CLP/GHS compliant product classification and labelling and REACH Annex II Regulation (EU) No 453/2010, as amended.

Notice to readers

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

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