

TECHNICAL NOTE

JBA Project Code	2022s1056
Contract	Former Wyevale Garden Centre, Reading Road, Lower Shiplake
Client	Peter Boros - Thames Farm Action Group
Date	June 2023
Author	Benjamin Brière De L'Isle
Reviewer / Sign-off	Paul Eccleston
Subject	Review of additional supporting evidence documents to discharge planning conditions of outline planning (P18/S0951/O) following first review of submitted documents dated April 2023

1.1 Introduction

Following on from your instruction dated 28th June 2023 regarding the provision of services as stated in email dated 27th June 2023, JBA have undertaken the technical review of the additional documents submitted for the following 4 discharge of conditions:

- P23/S0966/DIS – condition 12, foul drainage works
- P23/S0992/DIS – condition 13, surface water drainage works
- P23/S0993/DIS – condition 3, source protection strategy
- P23/S0994/DIS – condition 4, piling method

The report structure consists in a brief description of the site, associated constraints and planning history. This is followed by a discussion about the suitability of the documents submitted by the applicants to discharge above planning conditions.

Following the provision of comments on documents submitted by the applicant for the discharge of the 4 planning conditions in April 2023, the applicant has revised its methodology and approach to discharge the planning conditions and submitted a new set of documents to the local authority, South Oxfordshire and Vale of White Horse District Councils.

The outcome of the initial review by JBA Consulting of previously submitted documents by the applicant identified the compliance, or not, of the following planning conditions:

Planning condition	Suitability of Applicant's response
Condition 12 Foul drainage	Satisfactory – further detailed design of pumping station would be beneficial
Condition 13 Surface water drainage	Insufficient demonstration that the risk posed by current soakaway design to structural stability and public water supply is controlled by effective mitigation measures.
Condition 3 Source protection strategy	Absent – notably during operational stage of the development
Condition 4 Piling method	Insufficient details provided

JBA note that no new documents have been submitted in response to P23/S0966/DIS – condition 12, foul drainage works since JBA review in April 2023.

The documents that have been submitted by the applicant to discharge the four planning conditions since JBA review in April 2023 are listed in Section 1.4.

The Section 1.2 (site description) and Section 1.3 (Constraints and Planning Conditions) remain the same as previously written (JBA, April 2023) but are kept here to provide context to this second review.

1.2 Site description

The Former Wyevale Garden Centre site at Reading Road, Lower Shiplake, RG9 3NZ obtained outline planning permission (P18/S0951/O) in 2018 for up to 40 housing units and commercial space (250 m²) on a 1.8 ha site. The site outlined in red in Figure 1 lies on the River Thames left bank approximately 800 m from the river. The valley floor at this location is c. 30mAOD and the site sits east of the A4155 road on the slope of the valley with an elevation ranging from 42 mAOD to 46 mAOD.

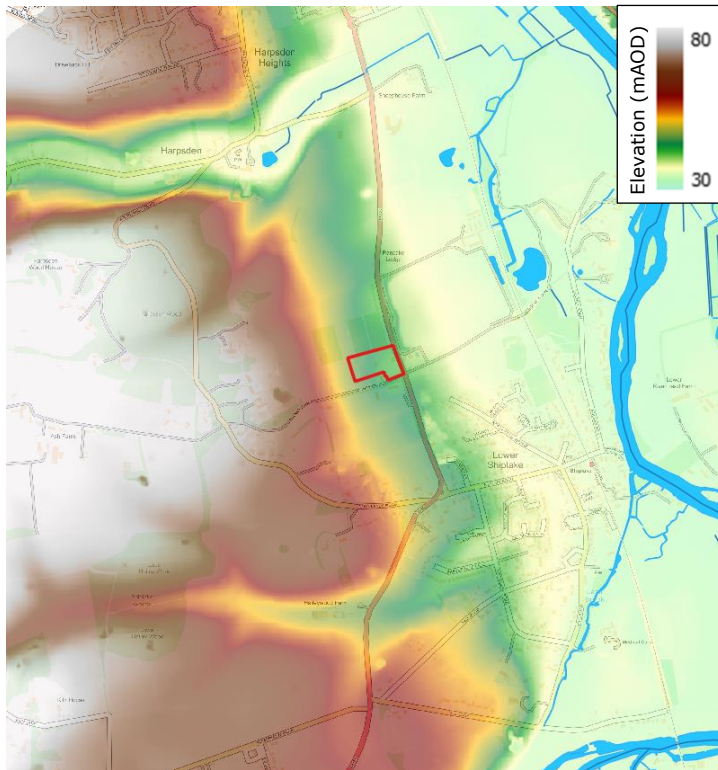


Figure 1 Site Location

1.3 Constraints and Planning Conditions

The main constraints for the site are the potential presence of solution features within the Chalk and the site being within a Source Protection Zone 1 leading to the associated constraints:

- Structural stability of infrastructure (foundations).
- Potential contamination of a Public Water Supply by the development during construction and during operation.

These constraints have been highlighted by the consultees and resulted in the following planning conditions. The planning conditions as written in the Outline Planning Decision are:

"12. Prior to the commencement of development details of foul drainage provision shall be submitted to and approved in writing by the Local Planning Authority. The development shall proceed in accordance with the approved details and shall be complete before the first occupation of the development.

Reason: To prevent pollution in accordance with Policy EP1 of the South Oxfordshire Local Plan 2011."

"13. Prior to the commencement of development, details of sustainable drainage measures shall be submitted to and approved in writing by the Local Planning Authority. These should include:

- a) An Environment Agency approved Hydrogeological Risk Assessment
- b) Full details of a sustainable surface water drainage system based on ground permeability tests to BRE 365 and full consideration of groundwater pollution prevention measures following consultation with the Environment Agency;
- c) Design calculations with appropriate climate change allowance and storage areas sizing;
- d) Full Suds construction details and proposals based on the above;
- e) Detailed proposed site and floor levels;
- f) Exceedance flood flow routing;
- g) Timescale for the works including phasing;
- h) A full future management and maintenance plan for the Suds features to ensure the efficient functioning of the on-site Suds.

The development shall be constructed in accordance with the approved details and shall be complete before the first occupation of the development.

Reason: To prevent pollution and flooding in accordance with Policies EP1, EP4 and EP6 of the South Oxfordshire Local Plan 2011."

The Environment Agency in their letter dated 14 March 2022 responding to the Full Planning Permission For Demolition Of All Existing Structures, Development Of Class E(C) (I, ii and iii), E(G) (i, ii, iii) And/ Or F2(B) Floorspace And Required Parking And Servicing Facilities On The South-Eastern Part Of The Site; Development Of 55 Dwellings On The Rest Of The Site With Associated Parking, Open Space And Landscaping indicated the following planning conditions:

"Environment Agency Condition 2

No drainage systems for the infiltration of surface water to the ground are permitted other than with the written consent of the local planning authority. Any proposals for such systems must be supported by an assessment of the risks to controlled waters. The development shall be carried out in accordance with the approved details.

Reasons

To ensure that the development does not contribute to, and is not put at unacceptable risk from or adversely affected by, unacceptable levels of water pollution caused by mobilised contaminants. This is in line with paragraph 174 of the National Planning Policy Framework. Also to protect groundwater quality from contamination both from past and future users of the site. Foundation solutions have not been specifically set out."

"Environment Agency Condition 3

Piling using penetrative methods shall not be carried out other than with the written consent of the local planning authority. The development shall be carried out in accordance with the approved details.

Reason

To ensure that the proposed piling does not harm groundwater resources in line with paragraph 174 of the National Planning Policy Framework and Position Statement. Also to protect groundwater quality in an inner source protection zone."

The Environment Agency planning conditions were made in effect based on the review of the Flood Risk Assessment Wyevale Country Gardens, Reading Road, Harpsden, RG9 4AE by Glanville dated 22 Dec 2021. This document has since been replaced several times and is now superseded by Glanville Flood Risk Assessment report "012_8210674_CS_Flood_Risk_Assessment Issue iii: 8 July 2022". Since JBA review in April 2023, no new update of the FRA has been submitted.

SODC in their letter approving Reserved Matter (P21/S4271/RM) dated 22 February 2023 indicated the following conditions:

"3. Prior to the commencement of the development, a Source Protection Strategy detailing how the developer intends to ensure the water abstraction source is not detrimentally affected by the proposed development both during and after its construction, shall be submitted to and approved in writing by the Local Planning Authority. The development shall be constructed and maintained in accordance with the recommendations of the strategy.

Reason - To ensure that the water resource is not detrimentally affected by the development in accordance with Policies INF4 and ENV11 of the South Oxfordshire Local Plan 2035."

"4. Piling using penetrative methods shall not be carried out other than with the written consent of the Local Planning Authority. In the event that piling is required a piling method statement shall be submitted to and approved in writing by the Local Planning Authority prior to the commencement of the development. The development shall be implemented in accordance with the approved details.

Reason: To ensure that the proposal does not harm groundwater resources in accordance with Policies INF4 and ENV12 of the South Oxfordshire Local Plan 2035.

The wording of the Environment Agency condition 2 and SODC condition 3 (February 23) are different, with EA condition 2 encompassing controlled waters rather than focusing on Thames Water abstraction borehole. The latter requesting a Source Protection Strategy to comply with INF4: "Water Resources"¹ and ENV12: "Pollution - Impact of Development on Human Health, the Natural Environment and/or Local Amenity (Potential Sources of Pollution)"².

A source protection strategy has not been specifically developed for the development and compliance with the planning condition relies on the Hydrogeological & Piling risk Assessment (ST Consult, 2023) referred to as HRA, and Flood risk Assessment (Glanville, 2023) reports referred to as FRA. The FRA includes in its Appendices the previous site investigation undertaken and reported within ST Consult report.

A Piling methodology Statement (Southern Piling, 2023) providing details on the proposed method of pile construction is appended to the HRA and was revised (Revision D, dated 9 June 2023). A number of drawings have been submitted in support of the reports above and are detailed below for those that have been revised since April 2023.

¹ Policy INF4: Water Resources 1. All development proposals must demonstrate that there is or will be adequate water supply, surface water, foul drainage and sewerage treatment capacity to serve the whole development. Applicants will be required to demonstrate that there is adequate capacity both on and off site to serve the development and that it would not lead to problems for existing users. When there is a capacity constraint and improvements to off-site infrastructure are not programmed, the developer should set out how the infrastructure improvements will be completed prior to occupation of the development. For phased development proposals, each phase must demonstrate sufficient water supply and water treatment capacity. 2. New developments are required to be designed to a water efficiency standard of 110 litres/head/day (l/h/d) for new homes. 3. Proposals that increase the requirement for water will only be permitted where adequate water resources either already exist or can be provided without detriment to existing abstraction, river flows, groundwater flow to and from springs, water quality, biodiversity or other land uses.

² Policy ENV12: Pollution - Impact of Development on Human Health, the Natural Environment and/or Local Amenity (Potential Sources of Pollution) 1. Development proposals should be located in sustainable locations and should be designed to ensure that they will not result in significant adverse impacts on human health, the natural environment and/or the amenity of neighbouring uses. 2. The individual and cumulative impacts of development on human health, the natural environment and/or local amenity will be considered when assessing development proposals. 3. The consideration of the merits of development proposals will be balanced against the adverse impact on human health, the natural environment and/or local amenity, including the following factors: noise or vibration; smell, dust, odour, artificial light, gases and other emissions; air pollution, contamination of the site or its surroundings and hazardous substances nearby; land instability; and any other relevant types of pollution.

1.4 Documents reviewed

The applicant, Beechcroft Development Limited, submitted supporting letters, amended reports and drawings following consultees response or since previous review in April 2023. Additional documents were sent to the Local Authority at the end of April and in June 2023. These documents are produced by consultancies Glanville, ST Consult and Southern Piling.

P23/S0966/DIS – condition 12, foul drainage works (Glanville)

No new documents submitted.

P23/S0992/DIS – condition 13, surface water drainage works (Glanville)

Construction Surface Water Management Plan by Beechcroft dated 21 April 2023.

Micro Drainage Calculations 12 June 2023

Sustainable Drainage Statement - Condition 13 – Outline – Revision B

Section through Soakaways Section D-D – Drawing 8210674-SK22 (June 2023)

P23/S0993/DIS – condition 3, source protection strategy & P23/S0994/DIS – condition 4, piling method (ST Consult unless otherwise stated)

Hydrogeological & Piling Risk Assessment – Project ID JT0447 Report issue 5 dated 13 June 2023

Piling Methodology Statement Rev D dated 9 June 2023

Distance from Buildings to Water Main – Drawing BDL114 dated 4 May 2023 by Beechcroft

Existing Water Main Cross-Section B-B – Drawing 8210674-SK20 Revision B dated April 2023

Existing Water Main Cross-Section C-C – Drawing 8210674-SK21 Revision A dated May 2023

In addition to the reference documents above, some elements of the outline planning application with associated response from statutory consultees were reviewed.

2 Hydrogeological Impacts Considerations

This section provides an outline assessment of the suitability of the submitted documents to discharge condition 12, condition 13, condition 3 and condition 4 as they all 4 relate to the capacity to ensure adequate measures are in place for the protection of the source protection zone and associated public water supply from construction activities and from site design.

To address the above planning conditions and specifically condition 12, the developer, Beechcroft Developments Ltd, proposes for its foul water drainage strategy to have a gravity network to a pumping station on site which will discharge to Thames Water sewage network.

No new information has been provided since the previous review and the outcome of the review remains the same. The EA position statement G8 – Sewerage pipework stating “The Environment Agency will require the use of the highest specification pipework and designs for schemes involving new sewerage systems in SPZ1 to minimise leakage.” remains valid.

Drawing 8210674-1002 Rev. T7 (dated 3/23) indicates a private foul pumping station dimension of 1.85m Ø x 6.20m long GRP Tank*, providing a storage volume of 16.665m³) with CL: 41.845 and IL IN/OUT: 39.840 mAOD. The Tank bottom level: 36.140* and Sump Level: 35.340* mAOD. An extract of the section through proposed

soakaways Section D-D (Drawing 8210674-SK22, Rev C, June 2023) is reproduced in Figure 2 and indicates the location of the foul pumping station, outlined in green, in relation to the soakaway 3 and the Chalk aquifer. With the base of the tank at 36.140mAOD and a diameter of 1.85m, the top of the tank would be at c. 38mAOD resulting in the entire pumping station being within the Chalk aquifer.

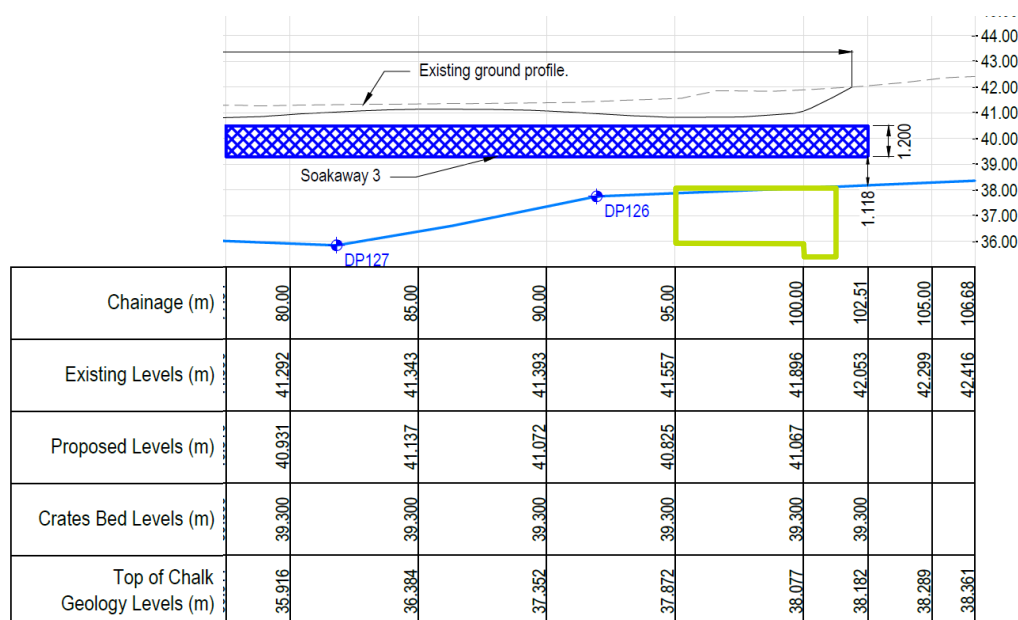


Figure 2 Foul pumping station depth with Chalk aquifer top

Considering Policy ENV12 balancing the merits of the development proposals against the adverse impact on human health and the natural environment amongst others, in the absence of a final detailed design of the foul pumping station and the uncertainty related to Thames Water connection, the applicant has not demonstrated the risk of an adverse impact to the nearby water supply had been considered.

The condition 13 requires the applicant to address potential flooding and pollution issues associated with the site drainage. The condition 3 identifies clearly that polluting activities may affect a source protection zone for public abstraction supply and that a risk assessment should be undertaken specifically for this receptor. Condition 4 identifies at least one activity during construction that has the potential to significantly affect the source protection zone and therefore requires specific measures to address any potential adverse effects.

Following JBA's report in April 2023, in a letter dated 21 April 2023, the applicant submitted a "Construction Surface Water Management Plan". This one page document indicates "surface water will be managed appropriately in accordance with best practice during the construction period. No polluting activities are expected to take place at the site during the temporary construction period...". This letter demonstrates the lack of consideration about construction activities and their potential effects on the environment. Common pollutants from construction activities include silt, oil (including fuel), cement, concrete, grout, chemicals, sewage, waste materials, dust, and smoke (EA, 2012³).

³ Working at construction and demolition sites: Pollution Prevention Guidelines - PPG6, 2nd edition 2012 – PPG withdrawn 17/12/2015 as the Environment Agency does not provide 'good practice' guidance.

Beechcroft's letter considers "the only potential risks identified to the local water environment are an increase in run-off flows incurred during groundworks, and silt from run-off over unfinished surfaces" which is neither realistic nor appropriate to develop a surface water management plan commensurate with the sensitivity of the receptor identified at this site, i.e. public water supply groundwater source protection zone.

The applicant has focused its discussion and provided information related to the protection of the water pipe main. This element of the proposed site design is considered sufficiently addressed by the applicant.

The water supply and its source protection zone have been added into the update to the Hydrogeological and Piling risk Assessment (HRA) (Issue 5, dated 13 June 2023) risk assessment. ST Consults have updated their assessment with additional information including "pile toe levels (based on Southern Piling schedule) are at around 22m to 27m OD and approximately 5-10m into the groundwater" and using Sectional Flight Auger (SFA) technique removing soil to the required depth and casting concrete in-situ. Pollution scenarios have been refined with this information and pollution potential to the public water supply is assessed specifically in scenario 1 and scenario 6. Scenario 6 specifically discusses "concrete, cement or grout" as sources of pollution for the water supply.

The HRA indicates the following mitigation measures for erecting the piles: "Where the probing process has identified a void, the pile has either been relocated or it will be sleeved, where the pile is sleeved, the sleeve will contain the concrete. This method is considered sufficient to prevent the creation of preferential pathways."

The Piling Risk Assessment follows guidance from land contamination and repeats the mitigation measure through use of sleeves. This could be considered sufficient to address concern of loss from concrete and bleed water.

It indicates cast in-situ concrete is favoured. The HRA reproduces the EA Guidance which indicates non-displacement piles risks for "Contamination of groundwater and subsequently surface waters by concrete, cement paste or grout" ranging from C-D, with C - may be considered acceptable/a more suitable piling or ground improvement method may be available and D - should normally be avoided on sites where this pollution scenario is likely to be an issue.

The EA Position Statement N8 related to Groundwater resources and SPZ1 states that:

"N8 - Physical disturbance of aquifers in SPZ1: Within SPZ1, the Environment Agency will normally object in principle to any planning application for a development that may physically disturb an aquifer." The Position Statement is still not discussed within the HRA or FRA.

The Piling Risk Assessment still does not consider piling potential effects, both for individual piles and as a group, drawing 8210674_2001 rev P3 dated 13 April 2023 indicates a total of 390 piles will be required, in relation to Position Statement N8.

Furthermore, Product Data Sheets have been provided instead of Safety Data Sheets and which have not been assessed by the applicant. The Safety Data sheet for the concrete mix intended for use, as specified by Hanson, have been reviewed and are provided in Appendix A. Sika® Plastiment®-190 and Sika® Stabilizer-500 VCC products both contains substances with hazard statements H317 and H412 referring to "May cause an allergic skin reaction" and "Harmful to aquatic life with long lasting effects" respectively.

The Piling Risk Assessment does not discuss risks associated with the use of these substances to the Public Water Supply. based on EA hierarchy and based on site specific condition, the applicant has not provided satisfactory justification for the selection of the most appropriate method.

3 Conclusion

Following on from April review of submitted document by the applicant, revisions of the HRA and piling risk assessment have been submitted.

Although further assessment have been made and details supplied, the documents that have been provided since April 2023 do not address potential risks related to construction activities and design of the proposed development which can still have significant adverse effects on the public water supply.

The potential risk to the Public Water Supply is severe, with significant hazards identified from construction activities (piling and general site construction activities) and low to medium hazards following development (absence of control for site activities).

A summary of the suitability of the applicant response to planning condition is provided below:

Planning condition	Suitability
Condition 12 Foul drainage	Satisfactory – further detailed design of pumping station would be beneficial
Condition 13 Surface water drainage	Risk posed by current soakaway design to structural stability and public water supply is controlled by effective mitigation measures.
Condition 3 Source protection strategy	Low confidence measures described will be implemented pro-actively during construction stage. No measures described during lifetime of the development which includes commercial premises.
Condition 4 Piling method	Insufficient details provided. Piling method against EA position statement N8

Appendix A – Safety Data Sheets

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sika® Plastiment®-190

Date of last issue: 13.12.2022
Revision Date: 08.03.2023

Version 4.0

Print Date 08.03.2023

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

1.1 Product identifier

Trade name : Sika® Plastiment®-190

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

1.3 Details of the supplier of the safety data sheet

Company name of supplier : Sika Limited
Watchmead Welwyn Garden City
Hertfordshire. AL7 1BQ
Telephone : +44 (0)1707 394444
Telefax : +44 (0)1707 329129
E-mail address of person : EHS@uk.sika.com
responsible for the SDS

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC)
24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements	:	H317	May cause an allergic skin reaction.
	:	H412	Harmful to aquatic life with long lasting effects.

Precautionary statements	:	Prevention:	
	:	P261	Avoid breathing mist or vapours.
	:	P273	Avoid release to the environment.

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P280 Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

triisobutyl phosphate
2-octyl-2H-isothiazole-3-one (OIT)

2.3 Other hazards

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

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
2,2'-iminodiethanol	111-42-2 203-868-0 01-2119488930-28-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 Repr. 2; H361fd	>= 0,1 - < 0,5
triisobutyl phosphate	126-71-6 204-798-3 01-2119957118-32-XXXX	Skin Sens. 1B; H317	>= 0,1 - < 0,5

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2-octyl-2H-isothiazole-3-one (OIT)	26530-20-1 247-761-7 01-2120768921-45-XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100100 M-Factor (Chronic aquatic toxicity): 100100 specific concentration limit Skin Sens. 1A; H317 ≥ 0,0015 % Acute toxicity estimate Acute oral toxicity: 125 mg/kg 125 mg/kg Acute inhalation toxicity (dust/mist): 0,27 mg/l 0,27 mg/l Acute dermal toxicity: 311 mg/kg 311 mg/kg	≥ 0,0025 - < 0,025
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

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Consult a physician after significant exposure.

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|-------------------------|---|---|
| In case of skin contact | : | Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician. |
| In case of eye contact | : | Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : | Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|----------|---|--|
| Symptoms | : | Allergic reactions
See Section 11 for more detailed information on health effects and symptoms. |
| Risks | : | sensitising effects

May cause an allergic skin reaction. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | | |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | | |
|------------------------------|---|--|
| Suitable extinguishing media | : | In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. |
|------------------------------|---|--|

5.2 Special hazards arising from the substance or mixture

- | | | |
|-------------------------------|---|--|
| Hazardous combustion products | : | No hazardous combustion products are known |
|-------------------------------|---|--|

5.3 Advice for firefighters

- | | | |
|---|---|--|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | Standard procedure for chemical fires. |

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accord-

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ance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters *	Basis *
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Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Eye/face protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
- Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (> 0,1 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
- Respiratory protection : No special measures required.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: brown
Odour	: characteristic
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Flammability (solid, gas)	: No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 8

Viscosity

Viscosity, kinematic	: < 20,5 mm ² /s (40 °C)
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Solubility(ies)

Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: 23 hPa
Density	: ca. 1,16 g/cm ³ (20 °C)
Relative vapour density	: No data available
Particle characteristics	: No data available

9.2 Other information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

2-octyl-2H-isothiazole-3-one (OIT):

Acute oral toxicity : Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)

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No. 1272/2008

Acute dermal toxicity : Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2'-iminodiethanol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 55 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 75 mg/l
Exposure time: 72 h

triisobutyl phosphate:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 11 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 34,1 mg/l
Exposure time: 72 h

2-octyl-2H-isothiazole-3-one (OIT):

M-Factor (Acute aquatic toxicity) : 100

100

M-Factor (Chronic aquatic toxicity) : 100

100

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

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12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : 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 material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

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IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior : Not applicable

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Informed Consent (PIC) Regulation

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)
no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 0% w/w

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : Environmental Protection Act 1990 & Subsidiary Regulations
Health and Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of H-Statements

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.
H361fd : Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage

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Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	: Chemical Abstracts Service
DNEL	: Derived no-effect level
EC50	: Half maximal effective concentration
GHS	: Globally Harmonized System
IATA	: International Air Transport Association
IMDG	: International Maritime Code for Dangerous Goods
LD50	: Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	: Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	: Occupational Exposure Limit
PBT	: Persistent, bioaccumulative and toxic
PNEC	: Predicted no effect concentration
REACH	: 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), establishing a European Chemicals Agency
SVHC	: Substances of Very High Concern
vPvB	: Very persistent and very bioaccumulative

Further information

Classification of the mixture:

Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GB / EN

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

1.1 Product identifier

Trade name : Sika® Stabilizer-500 VCC

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

Product use : Intermediate

1.3 Details of the supplier of the safety data sheet

Company name of supplier : Sika Limited
Watchmead Welwyn Garden City
Hertfordshire. AL7 1BQ
Telephone : +44 (0)1707 394444
Telefax : +44 (0)1707 329129
E-mail address of person : EHS@uk.sika.com
responsible for the SDS

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC)
24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H317 H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:	

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P261	Avoid breathing mist or vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves.
Response:	
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Disposal:	
P501	Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

triisobutyl phosphate
2-octyl-2H-isothiazole-3-one (OIT)

2.3 Other hazards

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

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
triisobutyl phosphate	126-71-6 204-798-3 01-2119957118-32-XXXX	Skin Sens. 1B; H317	>= 0,1 - < 0,5

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2-octyl-2H-isothiazole-3-one (OIT)	26530-20-1 247-761-7 01-2120768921-45-XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100100 M-Factor (Chronic aquatic toxicity): 100100 specific concentration limit Skin Sens. 1A; H317 ≥ 0,0015 % Acute toxicity estimate Acute oral toxicity: 125 mg/kg 125 mg/kg Acute inhalation toxicity (dust/mist): 0,27 mg/l 0,27 mg/l Acute dermal toxicity: 311 mg/kg 311 mg/kg	≥ 0,0025 - < 0,025
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

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Consult a physician after significant exposure.

- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Allergic reactions
See Section 11 for more detailed information on health effects and symptoms.
- Risks : sensitising effects
- May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accord-

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ance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters *	Basis *
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Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Eye/face protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
- Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (> 0,1 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
- Respiratory protection : No special measures required.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: brown
Odour	: characteristic
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Flammability (solid, gas)	: No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: 4,7

Viscosity

Viscosity, kinematic	: > 7 mm ² /s (40 °C)
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Solubility(ies)

Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: 23 hPa
Density	: ca. 1,146 g/cm ³ (20 °C)
Relative vapour density	: No data available
Particle characteristics	: No data available

9.2 Other information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

2-octyl-2H-isothiazole-3-one (OIT):

Acute oral toxicity : Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)

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No. 1272/2008

Acute dermal toxicity : Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

triisobutyl phosphate:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 11 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 34,1 mg/l
Exposure time: 72 h

2-octyl-2H-isothiazole-3-one (OIT):

M-Factor (Acute aquatic toxicity) : 100

100

M-Factor (Chronic aquatic toxicity) : 100

100

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

Components:

octamethylcyclotetrasiloxane [D4]:

20-year global warming potential: 2,66
100-year global warming potential: 0,739
500-year global warming potential: 0,211
Atmospheric lifetime: 0,027 yr
Radiative efficiency: 0,12 Wm²ppb
Further information: Miscellaneous compounds

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : 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 material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

Country GB 100000020565

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
UK REACH List of substances subject to authorisation : Not applicable

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(Annex XIV)

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)
Volatile organic compounds (VOC) content: < 0% w/w
no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 0% w/w

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : Environmental Protection Act 1990 & Subsidiary Regulations
Health and Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of H-Statements

H301 : Toxic if swallowed.
H311 : Toxic in contact with skin.
H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitisation

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ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	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), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

Further information

Classification of the mixture:

Skin Sens. 1	H317
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

|| Changes as compared to previous version !

GB / EN