



Washplant Management Plan

O'Brien Aggregate Marsden Ltd

Marsden Quarry Landfill Site Marsden Quarry

Whitburn Sunderland

Tyne and Wear

SR6 7NG

EPR/GB3206CB

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1.0 Introduction

This document is the proposals of the management of water arising from the washing of aggregate waste received at O 'Brien Aggregate Marsden Ltd (OBM) located at Marsden Quarry , Sunderland.

Due to the low risk associated with the washing process, it is considered that quarterly monitoring and laboratory analysis of wash water is sufficient to regulate its quality. This is because operation of the wash plant and the use of flocculant are consistent processes, subject to minimal change. Washed aggregates are clean and inert, and tested post process.

1.1 Washplant Information

Detailed specifications and layouts for the proposed wash plant are included in Appendix I of the ERA. However, as an outline, it can be confirmed that Inert waste will be fed into the system via a conveyor, from which the washing and grading process will begin.

Wash water is contained within a closed loop system, with the principal wash elements to include:

- Clarifying Tank,
- Thickener Tank,
- Sludge Tank,
- Filter Press.

The wash plant will be monitored via an inside control room by a trained plant operator and will process between 1,000 to 1,500 tonnes per day which is in accordance with the sites current allowed annual throughput of 450,000 tonnes when considering the number of operational days within the year.

The wash plant will hold 295m³ of wash water supplied and topped up via mains supply, bowsers or where necessary from a nearby quarry lagoon.

A rain harvesting system is also to be installed on structures to collect rainwater which will be directed to the clarifier tank. The wash water will be re-circulated within a closed loop system, with filter cake dewatered prior to leaving the plant to retain as much water as possible.

Physical barriers will be put in place to minimise water loss through the wash process. It is anticipated that 95% of water will be retained by the plant. As such, it is estimated that the daily 'top-up volume' will be less than 15m³ per day.

A flocculant (SPERFLOC A-130) will be used to aid with the removal of suspended particles and aid with wash water retention and fines extraction. The flocculant is Non-Hazardous and has low mobility in soil and all components used in its manufacture are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS (Specification Sheet in Appendix 1).

Final aggregate gradings will depend on plant operations, however, at this stage, it is considered the following product and filter cake gradings can be achieved.

- 10 mm single size,
- 20mm single size,
- 40mm single size,

- 75mm single size,
- Course building sand 0-8mm,
- Fine sand 0- 4mm,
- Filter cake 0-3mm.

Following washing and grading, aggregates will be stored in a pre-existing material storage area which is underlain by an impermeable liner, limiting vertical migration of residual wash water.

All plant and equipment must comply to PUWER regulations and operators must carry out pre start inspections on all plant and equipment.

A maintenance schedule is in place which includes servicing, calibration and preventive maintenance. All equipment on 3 phase power supply are subject to a 6 monthly EIRC by a competent contractor. Air receivers and air hoses are subject to 3 monthly inspections.

Return valves are installed where required, gate valves are also secured to prevent accidental release and all operators must be trained, competent and authorised by the Quarry Manager to operate plant and equipment in the Quarry.

Emergency procedures will be put in place which will include for the following:

- Maintain a stock of repair patches,
- Spill kits to be kept on site and around wash plant area,
- Emergency spillage drills to be carried out,
- Sludge tank and pipework emptied at the end of each shift,
- A maintenance schedule is in place which includes servicing, calibration and preventive maintenance,
- 24hr Remote CCTV surveillance in operation.

The permit is to be varied to add this activity, to formalise and ensure that site activities reflect the environment permit.

The benefits of the system that by rinsing, screening, scrubbing aggregates removes residues and maximises the recycling of natural resource for reuse as a product.

1.2 Monitoring Requirements

The following monitoring is proposed to fulfil requirements of the Environmental permit.

Table 1
Proposed Water Analytical Suite – Washplant

Borehole	Parameter	Frequency
	Cd, Cr, Cu, Fe, Pb, Zn, Ni, Mn, Al, Total TPH and PAH	Quarterly

1.3 Sampling Locations

Details of the sampling points are presented in Table 2.

Table 2
Details of Water Monitoring Points

Monitoring Point	Type	Location	Purpose
Wash plant water supply	Inline sampling	Wash Plant	Wash plant water supply – recirculated

1.4 Monitoring Frequency

OBM will conduct quarterly monitoring of water quality and inline circulated water supply to the wash plant.

Table 3 – Proposed Washplant Water Monitoring Schedule

Monitoring Event	Date
1	Q1 January – March
2	Q2 April – May
3	Q3 June – Sept
4	Q4 Oct – Dec

2.0 Sampling

2.1 Site Supervision and Sampling

All sampling activities will be completed by a suitably trained member of site management or engineer/consultant, in general accordance with BS EN ISO 15667-11:2009.

All samples will be taken within appropriate sampling containers and transported to the laboratory within 24 hours of sampling.

2.1.1 Infeed Circulated Water Supply

In feed samples for chemical analysis will be collected during each monitoring visit from each monitoring location using dedicated disposable bailers.

2.1.2 Testing

Samples taken will be analysed as per the above determinands in Table 1.

2.1.3 Reporting

The testing company will issue a report that include the following:

- Factual information on the work undertaken, including , Laboratory testing certificates.

Monitoring equipment, techniques, personnel and organisations employed for the monitoring programme shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available.

3.0 Review of Testing Results

3.1 Sampling Limits

3.1.1 Compliance

Maximum assessment levels and trigger levels are proposed for the below selected parameters, however no limit will be set until the plant is in full commissioning phase and operation to account for waste stream throughput to agree a formal monitoring plan.

Table 4 – Proposed assessment and trigger levels for water sampling

Substance	Maximum Concentration (ug/l)	Trigger Levels (ug/l)	Notes
Chromium	50	40	Maximum concentrations set at UK DWS Limits. Trigger levels set at 80% of UK DWS
Tin	25	20	
Arsenic	10	8	
Cadmium	5.0	4	
Mercury	1.0	0.8	
Copper	2000	1600	Maximum concentrations set at UK DWS Limits. Trigger levels set at 80% of UK DWS Benzo(a)pyrene to be monitored as a marker substance for PAHs.
Iron	200	160	
Lead	10	8	
Zinc	10.9	8.7	
Nickel	20	16	
Manganese	50	40	
Aluminum	200	160	
Total TPH's	No visible oil films	No visible oil films	
PAH's	0.10	0.08	
(benzo(a)p yrene)			

The above is taken from the Environmental Quality Standards (EQS) for fresh or inland water, issued by the Environment Agency and SEPA.

The water will not be discharged however sampling methodology has been based on the risk of residual water within finished product or may leak from the lagoon or be lost when applied for dust suppression.

3.2 Review of Data

The Operator will review the testing results (usually received within 7days) against the limits in Table 4. Any exceedances of the above limits will automatically action the cessation of the wash plant.

3.3 Reporting to the EA

Records of all testing, sampling, wastewater disposal and appropriate duty of care records will be retained for inspection by the Environment Agency.

A Schedule 5 notification will also be sent to EA within 24hrs of any exceedances identified with further communications regarding remedial actions.

3.4 Remediation

The water system will then be shut down, with washing activities ceased. The wash plant will be drained directly into the closed sump and the system flushed using mains water, then and cleaned with Airopure, then flushed again.

The wastewater will then be sent to a permitted waste facility, with additional testing conducted if required to identify the properties of the wastewater to identify the appropriate legal waste recovery/disposal route before removal off site.

Within 2 weeks of the wash plant recommencing activities, further infeed water testing will be undertaken within the wash plant to demonstrate water quality and elimination of contamination.

3.5 Investigation Process

In the event there are exceedances of determinants within the testing suite, an audit of all incoming wastes received and processed from the previous month will be undertaken to identify any potential sources of contaminated inert material received on site and comparison with testing results.

Checks will include pre acceptance testing, external site visits, aggregate testing, daily inspections, and potential site issues such as (failure of plant/equipment/leaks).

In the event waste materials or products on site are identified as the source of the exceedance, testing will be conducted to classify any hazardous properties within the material and to identify recovery or disposal routes where appropriate.

Contact with clients and customers will also be undertaken.

4.0 Conclusion

This document is considered to be a 'working' document that will be reviewed and updated annually or as required should any of the following occur:

- An exceedance of testing parameters on site;
- the results of any testing of this document indicate that changes are required;
- a change or review of legislation; or
- if the site is instructed to do so by the EA.

APPENDICIES

SUPERFLOC A-130

Ref. 3.0/GB/EN

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

1.1 Product identifier

Trade name : SUPERFLOC A-130

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

Recommended restrictions on use : For use in industrial installations or professional treatment only.

1.3 Details of the supplier of the safety data sheet

Company : Kemira Oyj
0109823-0
Energiakatu 4
00180 HELSINKI

Telephone : +358108611

Telefax : +358108621124

E-mail address of person responsible for the SDS : ProductSafety.FI.Helsinki@kemira.com

1.4 Emergency telephone number

Carechem 24 International: +44 (0) 1235 239 670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

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.

Avoid spillage on floor as the product can become very slippery when wet.

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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature : Anionic water soluble polyacrylamide

Components

Remarks : No hazardous ingredients

SECTION 4: First aid measures**4.1 Description of first aid measures**General advice : No hazards which require special first aid measures.
Show this safety data sheet to the doctor in attendance.

Protection of first-aiders : No special precautions are necessary for first aid responders.

If inhaled : Remove to fresh air.
If there is difficulty in breathing, medical advice is required.

In case of skin contact : Wash off with soap and water.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.If swallowed : No hazards which require special first aid measures.
Rinse mouth with water.
Call a physician if symptoms occur.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms : No symptoms known or expected.

Risks : No hazards which require special first aid measures.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Symptomatic treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Product is compatible with standard fire-fighting agents.

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The product itself does not burn.

Unsuitable extinguishing media : High volume water jet
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : None known.
The product itself does not burn.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Suppress (knock down) gases/vapours/mists with a water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Further information : Forms slippery/greasy layers with water.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : For personal protection see section 8.
Material can create slippery conditions.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
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 : Product becomes slippery when it is wet.
Take up mechanically and collect into suitable containers for disposal.
After cleaning, flush away traces with water.

6.4 Reference to other sections

See Sections 7 and 8 for proper handling and protective measures and Section 13 for proper waste disposal measures.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- | | | |
|---|---|--|
| Technical measures | : | Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection"). |
| Advice on safe handling | : | If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Provide for appropriate exhaust ventilation and dust collection at machinery.
Minimize dust generation and accumulation. |
| Advice on protection against fire and explosion | : | No special precautions required. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking. |

7.2 Conditions for safe storage, including any incompatibilities

- | | | |
|---|---|---|
| Requirements for storage areas and containers | : | The product is hygroscopic. Protect from moisture. |
| Further information on storage conditions | : | Aqueous solutions or powders produce extremely slippery surfaces. |
| Advice on common storage | : | No special restrictions on storage with other products. |
| Storage period | : | 24 Months |
| Recommended storage temperature | : | < 40 °C |
| Dampness | : | Keep in a dry place. |
| Further information on storage conditions | : | Recommended storage temperature for quality reasons.
The product is chemically stable.
No decomposition if stored normally. |
| Packaging material | : | Suitable material: Polypropylene, Polyethylene, PVC, polyester with fibreglass reinforcement, stainless steel (AISI 304), acid-resistant steel (AISI 316)
Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment. |

7.3 Specific end use(s)

- | | | |
|-----------------|---|--|
| Specific use(s) | : | For professional and industrial installation and use only. |
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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Engineering measures**

Maintain air concentrations below occupational exposure standards.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection
Material : Nitrile rubber

Remarks : Protective gloves complying with EN 374. Permeability tests are not available for this product. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Long sleeved clothing

Respiratory protection : Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.
Half mask with a particle filter P2 (EN 143)

Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands and face before breaks and immediately after handling the product.
Avoid dust formation.
Do not breathe dust.
Use personal protective equipment.
Eye wash bottle or emergency eye-wash fountain must be found in the work place.

Environmental exposure controls

Water : Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : powder

Colour : white

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Odour	: odourless
Odour Threshold	: Not applicable
pH	: 6 - 8 (25 °C) Concentration: 0,5 %
Melting point/freezing point	: Decomposes before melting.
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard, Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not determined
Density	: not determined
Bulk density	: 650 - 850 kg/m ³
Solubility(ies) Water solubility	: > 5 g/l Limited by viscosity. (25 °C)
Partition coefficient: n-octanol/water	: log Pow: << 4 Method: OECD Test Guideline 107 Information refers to the main component.
Auto-ignition temperature	: does not ignite
Decomposition temperature	: > 150 °C Method: ISO 11358 No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
Viscosity Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable

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Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension : Surface activity is not to be expected.

Minimum explosible dust concentration : Not applicable

Particle size : approximately 150 - 1 700 µm

SECTION 10: Stability and reactivity**10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

Conditions to avoid : Avoid contact with alkaline materials which will degrade the polymer.
Avoid moisture.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
Ammonia

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity : LD50 Oral: > 5 000 mg/kg
Method: OECD Test Guideline 401
Remarks: Read-across (Analogy)

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Albino rabbit): > 10 000 mg/kg

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Method: No guideline followed

Acute toxicity (other routes of :
administration)

Remarks: This information is not available.
The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

Skin corrosion/irritation**Product:**

Assessment : No skin irritation
Test substance : Read-across (Analogy)
Remarks : Literary reference

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Assessment : No eye irritation
Method : Draize Test
Test substance : Read-across (Analogy)
Remarks : Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitisation**Product:**

Test Type : Buehler Test
Exposure routes : Dermal
Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : negative
Test substance : Read-across (Analogy)

Exposure routes : Inhalation
Assessment : Does not cause respiratory sensitisation.
Method : Calculation method

Germ cell mutagenicity**Product:**

Genotoxicity in vivo : Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity**Product:**

Remarks : Based on available data, the classification criteria are not met.

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Effects on fertility : Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure**Product:**

Remarks : Based on available data, the classification criteria are not met.

STOT - repeated exposure**Product:**

Remarks : Based on available data, the classification criteria are not met.

Repeated dose toxicity**Product:**

Remarks : No data available

Aspiration toxicity**Product:**

No aspiration toxicity classification

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: Acute toxicity
Method: OECD Test Guideline 203
Remarks: Read-across (Analogy)

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: Immobilization
Test substance: Read-across (Analogy)
Method: OECD Test Guideline 202

EC50 (Acartia tonsa (copepod)): 342 mg/l
Exposure time: 48 h
Test Type: Immobilization
Test substance: Read-across (Analogy)
Method: PARCOM SOP 106

Toxicity to algae/aquatic : IC50 (Green algae (Selenastrum capricornutum)): > 100 mg/l

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plants	Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 IC50 (Skeletonema costatum (diatom)): 2 276 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: PARCOM SOP 104
Sediment toxicity	: EC50: 1415 mg/l Exposure duration: 10 d Species: Corophium volutator (amphipoda) Method: PARCOM SOP 102 Remarks: Read-across (Analogy)

12.2 Persistence and degradability

Product:

Biodegradability	: Test Type: Closed Bottle test Biodegradation: < 10 % Exposure time: 28 d Method: OECD Test Guideline 306 Test substance: Read-across (Analogy) Remarks: The polymeric ingredient is not readily biodegradable.
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	: Remarks: No bioaccumulation is to be expected (log Pow <= 4).
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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 Other adverse effects

Product:

Endocrine disrupting potential	: 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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Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.
This product has no known ecotoxicological effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Recycling, recovery and reuse of materials is recommended if permitted by regulations.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Must be disposed of in accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : None known.

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

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

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

Seveso III Directive (2012/18/EU) implemented : Not applicable

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by Control of Major Accident Hazards Regulations 2015 (COMAH)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

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

The components of this product are reported in the following inventories:

TSCA	: All components of this product are included in the United States TSCA Chemical Inventory with Active Status or are not required to be listed on the United States TSCA Chemical Inventory.
DSL	: All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
EINECS	: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
AIIC	: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on the Australian Inventory of Industrial Chemicals (AIIC).
IECSC	: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
ENCS	: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
KECI	: All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
PICCS	: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
NZIoC	: All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory (NZIoC).
TCSI	: All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

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A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Read the safety data sheet before using the product.

Other information : Relevant changes have been marked with vertical lines.

Sources of key data used to compile the Safety Data Sheet : Regulations, databases, literature, own tests.

Classification of the mixture:**Classification procedure:**

Bridging principle "Substantially simi-

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lar mixtures".

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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