

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

WALL-NUT® FINE

Revision Date: 29-Aug-2014

Revision Number: 10

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

1.1. Product Identifier

Product Name WALL-NUT® FINE

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

| | |
|---------------------------|---|
| Recommended Use | Loss Circulation Material |
| Sector of use | SU2 - Mining, (including offshore industries) |
| Product category | PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents, other unspecific |
| Process categories | PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises |

1.3. Details of the supplier of the safety data sheet

Halliburton Manufacturing Services, Ltd.
Halliburton House, Howemoss Crescent
Kirkhill Industrial Estate
Dyce
Aberdeen, AB21 0GN
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

1.4. Emergency telephone number

+44 1224 795277 or +1 281 575 5000

| Emergency telephone - §45 - (EC)1272/2008 | |
|--|---|
| Europe | 112 |
| Denmark | Poison Control Hotline (DK): +45 82 12 12 12 |
| France | ORFILA (FR): + 01 45 42 59 59 |
| Germany | Poison Center Berlin (DE): +49 030 30686 790 |
| Italy | Poison Center, Milan (IT): +39 02 6610 1029 |
| Netherlands | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| Norway | Poisons Information (NO): +47 22 591300 |
| Poland | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97 |
| Spain | Poison Information Service (ES): +34 91 562 04 20 |
| United Kingdom | NHS Direct (UK): +44 0845 46 47 |

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Classification Not Classified
Risk Phrases None

2.2. Label Elements

Not classified

Hazard Pictograms

Signal Word None

Hazard Statements
 Not Classified

Precautionary Statements - EU (§28, 1272/2008)
 None

Contains

Substances

Contains no hazardous substances

CAS Number

NA

2.3. Other Hazards

Dust can form an explosive mixture in air

SECTION 3: Composition/information on Ingredients

| Substances | EINECS | CAS Number | PERCENT (w/w) | EEC Classification | EU - CLP Substance Classification | REACH No. |
|----------------------------------|----------------|------------|---------------|--------------------|-----------------------------------|-------------------|
| Contains no hazardous substances | Not applicable | NA | 60 - 100% | Not applicable | Not applicable | No data available |

For the full text of the R-phrases mentioned in this Section, see Section 16

3.1. Substances

Substance

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Under normal conditions, first aid procedures are not required.

Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin

Under normal conditions, first aid procedures are not required.

Ingestion

Under normal conditions, first aid procedures are not required.

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

No significant hazards expected.

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

Notes to Physician

Treat symptomatically

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards

Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential.

5.3. Advice for firefighters**Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

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

Use appropriate protective equipment.

See Section 8 for additional information

6.2. Environmental precautions

None known.

6.3. Methods and material for containment and cleaning up

Scoop up and remove.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and Storage**7.1. Precautions for Safe Handling**

Avoid creating or inhaling dust.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a dry location. Product has a shelf life of 60 months.

7.3. Specific End Use(s)**Exposure Scenario**

No information available

Other Guidelines

No information available

SECTION 8: Exposure Controls/Personal Protection**8.1. Control parameters****Exposure Limits**

| Substances | CAS Number | EU | UK OEL | Netherlands | France OEL |
|----------------------------------|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Germany MAK/TRK | Spain | Portugal | Finland |
|----------------------------------|------------|-----------------|----------------|----------------|----------------|
| Contains no hazardous substances | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Austria | Ireland | Switzerland | Norway |
|----------------------------------|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Italy | Poland | Hungary | Czech Republic |
|----------------------------------|------------|----------------|----------------|----------------|----------------|
| Contains no hazardous substances | NA | Not applicable | Not applicable | Not applicable | Not applicable |

| Substances | CAS Number | Denmark |
|----------------------------------|------------|----------------|
| Contains no hazardous substances | NA | Not applicable |

Derived No Effect Level (DNEL)**Worker**

No information available.

General Population**Predicted No Effect Concentration (PNEC)**

No information available.

8.2. Exposure controls**Engineering Controls**

Use in a well ventilated area.

Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Dust/mist respirator. (N95, P2/P3)

Hand Protection

Normal work gloves.

Skin Protection

Normal work coveralls.

Eye Protection

Safety glasses.

Other Precautions

None known.

Environmental Exposure Controls No information available**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties****Physical State:** Solid**Color:** Brown**Odor:** Odorless**Odor Threshold:** No information availablePropertyValuesRemarks/ - Method**pH:**

No data available

Freezing Point/Range

No data available

Melting Point/Range

No data available

Boiling Point/Range

No data available

Flash Point

No data available

Evaporation rate

No data available

Vapor Pressure

No data available

Vapor Density

No data available

Specific Gravity

1.2

Water Solubility

Insoluble in water

Solubility in other solvents

No data available

Partition coefficient: n-octanol/water

No data available

Autoignition Temperature

No data available

Decomposition Temperature

No data available

Viscosity

No data available

Explosive Properties

No information available

Oxidizing Properties

No information available

9.2. Other information**VOC Content (%)**

No data available

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

Not applicable

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Strong oxidizers.

10.6. Hazardous Decomposition Products

None known.

SECTION 11: Toxicological Information**11.1. Information on Toxicological Effects****Acute Toxicity**

| | |
|---------------------|--|
| Inhalation | May cause mild respiratory irritation. |
| Eye Contact | May cause mild eye irritation. |
| Skin Contact | None known. |
| Ingestion | None known |

Chronic Effects/Carcinogenicity

No data available to indicate product or components present at greater than 1% are chronic health hazards.

Toxicology data for the components

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------------------|------------|-------------------|-------------------|-------------------|
| Contains no hazardous substances | NA | No data available | No data available | No data available |

SECTION 12: Ecological Information**12.1. Toxicity****Ecotoxicity Effects**

| Substances | CAS Number | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to Invertebrates |
|----------------------------------|------------|--------------------------|--------------------------|----------------------------|---------------------------|
| Contains no hazardous substances | NA | No information available | No information available | No information available | No information available |

12.2. Persistence and degradability

Biodegradable.

| Substances | CAS Number | Persistence and Degradability |
|----------------------------------|------------|-------------------------------|
| Contains no hazardous substances | NA | No information available |

12.3. Bioaccumulative potential

| Substances | CAS Number | Log Pow |
|----------------------------------|------------|--------------------------|
| Contains no hazardous substances | NA | No information available |

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal Considerations**13.1. Waste treatment methods****Disposal Method**

Bury in a licensed landfill according to federal, state, and local regulations.

Contaminated Packaging

Follow all applicable national or local regulations.

SECTION 14: Transport Information**IMDG/IMO**

| | |
|------------------------------------|-----------------|
| UN Number: | Not restricted. |
| UN Proper Shipping Name: | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group: | Not applicable |
| Environmental Hazards: | Not applicable |

RID

| | |
|------------------------------------|-----------------|
| UN Number: | Not restricted. |
| UN Proper Shipping Name: | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group: | Not applicable |
| Environmental hazard: | Not applicable |

ADR

| | |
|------------------------------------|-----------------|
| UN Number: | Not restricted. |
| UN Proper Shipping Name: | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group: | Not applicable |
| Environmental hazard: | Not applicable |

IATA/ICAO

| | |
|------------------------------------|-----------------|
| UN Number: | Not restricted. |
| UN Proper Shipping Name: | Not restricted |
| Transport Hazard Class(es): | Not applicable |
| Packing Group: | Not applicable |
| Environmental hazard: | Not applicable |

14.1. UN Number: Not restricted.

14.2. UN Proper Shipping Name: Not restricted

14.3. Transport Hazard Class(es): Not applicable

14.4. Packing Group: Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories****EINECS Inventory**

This product, and all its components, complies with EINECS

| | |
|-------------------------------|---|
| US TSCA Inventory | All components listed on inventory or are exempt. |
| Canadian DSL Inventory | All components listed on inventory or are exempt. |

Legend**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

| | |
|---|---|
| Germany, Water Endangering Classes (WGK) | WGK 0: Generally not water endangering. |
|---|---|

15.2. Chemical Safety Assessment

No information available

| |
|--------------------------------------|
| SECTION 16: Other Information |
|--------------------------------------|

Full text of R-phrases referred to under Sections 2 and 3

None

Key literature references and sources for datawww.ChemADVISOR.com/**Revision Date:** 29-Aug-2014**Revision Note**

Update to Format SECTION: 8

This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010**Disclaimer Statement**

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End of Safety Data Sheet