

SAFETY DATA SHEET

(According to SANS 10234:2008 & SANS 11014:2010)

Pulp Sludge

Generation Date: 06/09/2022

Revision number: 0

Revision Date: Not Applicable



smarter, sustainable solutions

SECTION 1: IDENTIFICATION OF THE WASTE STREAM AND OF THE WASTE PRODUCER

PRODUCT IDENTIFIER

Product Code Not Applicable
Product Name Pulp Sludge

RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Not Applicable

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Generator: Mpact Paper - Springs Mill
82 - 84 Steel Road, New Era, Springs
Gauteng, 1559

Emergency contact: Technical Systems Analyst: Amukelani Shipalana
Tel: +27 11 360 4253
Cell: +27 81 515 3951
Email: AShipalana@Mpact.co.za

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MIXTURE

Hazard Classification According to SANS 10234:2008 (GHS)
Non-Hazardous within the scope of GHS

Hazard Classification According to SANS 10228:2010
N/A

The most important adverse effects
N/A

LABEL ELEMENTS

Hazard Pictograms: None

Signal Word: None

Hazard Statements
N/A

Precautionary Statements
N/A

Other hazards associated with individual ingredients not resulting in classification of the stream towards any GHS prescribed endpoints:
None under normal conditions.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS PRESENT IN MIXTURE

Hazardous Ingredients / Components (Potential)

| Ingredient Name (IUPAC) | CAS No: | Concentration % by weight | Classification SANS 10234:2008 |
|-------------------------|---------|------------------------------|-----------------------------------|
| None present at >0.1% | | | |

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

| | |
|------------------------------------|---|
| General First Aid Measures: | Never give anything by mouth to an unconscious person. Emergency responders should wear appropriate protective equipment. If exposed or concerned: Get medical advice/attention. |
| Following inhalation: | Move to fresh air and keep at rest in a position comfortable for breathing. Give oxygen if breathing is difficult. In the instance of irregular breathing or respiratory arrest, artificial respiration should be practiced with the aid of a barrier. Immediately call a POISON CENTER or doctor/physician if symptoms appear. |
| Following skin contact: | Remove contaminated clothing and wash all exposed skin with mild soap and water, followed by warm water rinse. Seek medical attention if irritation occurs. Thoroughly clean contaminated clothing before reuse or safely dispose. |
| Following eye contact: | Quickly and gently blot or brush material off the face. Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek immediate medical attention if irritation occurs. |
| Following ingestion: | Immediately call a POISON CENTER or doctor/physician if symptoms appear. Rinse mouth with water. If conscious, give large amounts of water to drink. Do not induce vomiting. Ingestion of large quantities: Immediately transport to hospital. |

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

| | |
|--|--|
| Symptoms/injuries following inhalation: | Exposure to high concentrations: Headache, nausea, feeling of weakness, dizziness, central nervous system depression, narcosis, mental confusion, drunkenness, co-ordination disorders & disturbed motor response. |
| Symptoms/injuries following skin contact: | Tingling/irritation of the skin. Rashes and welts may occur in sensitive individuals. Inflammation of the skin may occur after repeated exposure. |
| Symptoms/injuries following eye contact: | Irritation and redness of eyes. |
| Symptoms/injuries following ingestion: | Abdominal pain. Symptoms similar to those listed under inhalation. |
| Chronic symptoms: | On continuous/repeated exposure/contact: Dry skin. Skin rash/inflammation. |

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Obtain medical assistance.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

| | |
|---------------------------------------|--|
| Suitable extinguishing media | Use suitable extinguishing agent for surrounding materials and type of fire. |
| Unsuitable extinguishing media | None known |

SPECIAL HAZARDS ARISING FROM THE STREAM

Fire Hazard: None known

None known

Reactivity:

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Fire fighting crew to be equipped with full-face, self-contained breathing apparatus, rubber gloves, chemical resistant suits and boots. Thoroughly decontaminate all equipment following the conclusion of fire fighting activities.

SECTION 6: ACCIDENTAL RELEASE MEASURES - ALSO SEE SECTION 5, 8 & 13

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

| | |
|-------------------------------------|---|
| General measures: | Uncontrolled release should be responded to by trained personnel using pre-planned procedures. Evacuate personnel to a safe area and isolate the affected area. Keep unnecessary personnel from entering area. No naked flames or sparks. Stop engines. |
| For non-emergency personnel: | Evacuate unnecessary personnel. |
| For emergency responders: | Equip clean-up crew with the proper protective equipment, i.e. full-face, self-contained breathing apparatus, rubber gloves, chemical resistant suits and boots. |

ENVIRONMENTAL PRECAUTIONS

Prevent entry to sewers, public waters and soil pollution. Notify the relevant authorities if the waste stream enters sewers or public waters. Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

For containment: Cordon affected area. Place spilled waste into a labelled container and provide safe disposal.

Methods for cleaning up: Scoop absorbed substance into appropriately labelled containers for eventual safe disposal. Wash clothing and equipment after handling.

REFERENCE TO OTHER SECTIONS: See Section 8: Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling: As with all chemical waste, avoid getting the waste material ON YOU or IN YOU. Do not handle until all safety precautions have been read and understood. Obtain special instructions before handling. Area in which the waste is processed should have good ventilation to prevent vapour build-up. Report all waste releases promptly. Containers of waste should be properly labelled. Empty containers previously containing waste may contain residues and should be handled with care. Wash hands thoroughly before eating or smoking. Keep away from naked flames or heat. Keep away from ignition sources or sparks.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures: Follow practice indicated in Section 6. Always handle waste material in areas where adequate ventilation is provided. Decontaminate equipment before beginning any maintenance procedure.

Storage conditions: Keep stored containers of waste tightly closed. Store containers away from sources of intense heat. Store away from incompatible materials. Waste material should be stored in a demarcated or banded area.

Incompatible materials: None known

Prohibition on mixed storage: KEEP SUBSTANCE AWAY FROM INCOMPATIBLE MATERIALS

Storage area: Store at Ambient Temperature. Ventilation at floor level. Provide for a tub to collect Spills. Meet the Legal Requirements.

Special rules on packaging: Inspect all containerised waste before storage to ensure containers are properly labelled and leak-proof.

SPECIFIC END USE(S)

No additional information available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

| Ingredient Name (IUPAC) | CAS No: | OSHA PEL (mg/m ³) | NIOSH REL (mg/m ³) | ACGIH TLV (mg/m ³) |
|-------------------------|---------|----------------------------------|-----------------------------------|-----------------------------------|
| Not Applicable | | | | |

EXPOSURE CONTROLS

Appropriate engineering controls

Handle the waste material in a well ventilated area or ensure other engineering controls are in place to control exposure to meet established ingredient exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or consume food in waste handling or storage areas. Wash hands thoroughly before eating or smoking. Clothing worn in waste processing and storage areas should be restricted to the workplace and stored in special lockers. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential exposure areas.

Individual protection measures such as personal protective equipment

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit.

Hand protection: Avoid direct contact. Handle containerised waste stream with impermeable gloves. Gloves to be inspected prior use. Use proper glove removal technique, without touching the glove's outer surface, to avoid skin contact with the waste material. Dispose contaminated gloves after use in accordance with applicable laws. Wash and dry hands. Use Nitride or PVC gloves.

Eye protection: Avoid any form of direct contact. Do not touch eyes with dirty hands or gloves. Use NIOSH approved safety glasses or face shield.

Skin and body protection: Use chemical resistant overalls and safety footwear.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the waste material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|-----------------|
| Appearance: | Sludge |
| Colour: | Black |
| Odour: | Not Established |
| Odour threshold: | Not Applicable |
| pH (at concentration): | 7,3 |
| Melting point of stream components: | Not Established |
| Boiling point of stream components: | Not Established |
| Flash point of stream components: | Not Applicable |
| Flash point of stream components: | Not Established |
| Evaporation rate of stream components (Butyl Acetate = 1): | Not Established |
| Flammable Limits in air | Not Established |
| Autoignition temperature: | Not Established |
| Vapour pressure of stream components: | Not Established |
| Vapour density | Not Established |
| Relative density of stream components: | Not Established |
| Water solubility of stream components: | Not Established |
| n-Octanol/Water partition coefficient: | Not Established |
| Component Decomposition temperature: | Not Established |

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY

This stream is chemically stable under normal conditions of handling and transport.

POSSIBILITY OF HAZARDOUS REACTIONS

None known

CONDITIONS TO AVOID

Stable under recommended storage and handling conditions (see section 7).

INCOMPATIBLE MATERIALS

None known

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON THE INTRINSIC HEALTH HAZARDS OF WASTE STREAM COMPONENTS:

None

INFORMATION ON TOXICOLOGICAL EFFECTS OF THE STREAM COMPONENTS

| Ingredient Name (IUPAC) | CAS No: | Route of Exposure | LD50 |
|-------------------------|---------|-------------------|------|
| Not Applicable | | | |

The ATE for the stream mixture cannot be calculated for any route; not considered within the scope of the GHS as being toxic via any route.

Skin Corrosion / Irritation

Not classifiable to this hazard endpoint.

Serious Eye Damage / Irritation

Not classifiable to this hazard endpoint.

Respiratory or Skin Sensitisation

Not classifiable to this hazard endpoint.

Germ Cell Mutagenicity

Not classifiable to this hazard endpoint.

Carcinogenicity

Not classifiable to this hazard endpoint.

Reproductive Toxicity

Not classifiable to this hazard endpoint.

Specific Target Organ Toxicity, Single Exposure

Not classifiable to this hazard endpoint.

Specific Target Organ Toxicity, Repeat Exposure

Not classifiable to this hazard endpoint.

Aspiration Hazard

Not classifiable to this hazard endpoint.

Symptoms / Injuries following short-term or chronic exposure

Refer Section 4 (First Aid Measures)

SECTION 12: ECOLOGICAL INFORMATION**INFORMATION ON THE AQUATIC ENVIRONMENTAL HAZARDS OF THE INDIVIDUAL WASTE STREAM COMPONENTS:**

None within the scope of GHS

ECOTOXICITY

Not Applicable

PERSISTENCE AND DEGRADABILITY

Not Established

BIOACCUMULATIVE POTENTIAL OF INDIVIDUAL STREAM COMPONENTS:

Not Established

AQUATIC ENVIRONMENTAL EFFECTS :

The stream is not classifiable to both the acute and chronic aquatic hazard endpoints.

SECTION 13: DISPOSAL CONSIDERATIONS**WASTE TREATMENT & DISPOSAL METHODS:**

The waste stream, including containers, must be disposed in accordance with local and national environmental requirements.

Ensure storage of the stream in sealed containers. Do not wash into sewers and waterways.

Transportation and disposal must be facilitated by an appropriately licenced waste disposal company.

SECTION 14: TRANSPORT INFORMATION

| UN Number | Proper Shipping Name | Class | Packing group | Labels |
|---------------|----------------------|-------|---------------|--------|
| Not Regulated | N/A | N/A | N/A | N/A |

SECTION 15: REGULATORY INFORMATION**Handling, storage and disposal:**

National Environmental Management Waste Act, Act No. 59 of 2008.
 South African National Standards (SANS) 10234: 2008, Globally Harmonised System of Classification and Labelling of Chemicals.
 Department of Water Affairs and Forestry, Minimum Requirements for the Handling, Classification and Disposal of Hazardous Waste, Second Edition, 1998.
 GNR 634, Waste Classification and Management Regulations.
 GNR 635, National Norms and Standards for the Assessment of Waste for Landfill Disposal.
 GNR 636, National Norms and Standards for Disposal of Waste to Landfill.

Transport:

National Road Traffic Regulations (2000) as promulgated under the National Road Traffic Act, No. 83 of 1996.
 South African National Standards (SANS) 10228:2010, The Identification and Classification of Dangerous Goods for Transport.

Occupational:

Occupational Health and Safety Act (1993). Hazardous Chemical Substances Regulations, 1995.

SECTION 16: OTHER INFORMATION

Training advice: Provide adequate information, instruction and training for operators.

A key or legend to abbreviations and acronyms used in the safety data sheet:

| | |
|-----------|--|
| SANS | South African National Standards |
| GHS | Globally Harmonised System |
| TWA | Time Weighted Average |
| ACGIH TLV | American Conference of Governmental Industrial Hygienists Threshold Limit Value |
| OSHA PEL | Occupational Safety and Health Administration Permissible Exposure Limit |
| NIOSH REL | National Institute for Occupational Safety and Health Recommended Exposure Limit |
| IUPAC | International Union of Pure and Applied Chemistry |

Notice to Reader: All reasonable efforts were exercised in the compilation of this SDS in accordance with the dictates of SANS 10234 & SANS 11014. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe generation, receipt, handling, transport and disposal of the stream. Since the generator cannot anticipate nor control all conditions under which the waste may be generated, received, handled, transported, treated and disposed, it remains the obligation of the generator, receiver, handler, transporter and manager of the stream, prior processing, to review the SDS in the context within which the waste shall be generated, received, handled, transported, treated and disposed. The generator, handler, transporter and manager must ensure the necessary mitigating measures are in place as regards health and safety. This document does not serve as a surrogate for any relevant risk assessments to be conducted per exposure scenario. It further remains the responsibility of the generator, receiver, handler, transporter and manager to communicate such information to all pertinent parties that may be involved in the generation, receipt, handling, transport and management of the waste stream.

Date of issue: 06-Sep-22

End of SDS