

CNAF -Material Safety Data Sheet

Product Identification

Product Name: CNAF - Compressed Non-Asbestos Fibre

Physical and Chemical Properties

Specific Gravity	1.75
Water Solubility	Insoluble
Flash Point (Method used)	Not Applicable
Auto Ignition temperature	Not Determined
Flammable Limits	LEL : Not Applicable UEL: Not Applicable
Appearance and Odour	Flat or rolled sheet ranging from 1/64" through 1/8" in thickness; or material may be cut into Gasket shapes
Colour	Green

Health Hazard Data

This product is a solid gasket material that presents no health or physical hazards under normal conditions of use. The hazardous components in this product are not volatile and bound in an polymer matrix so exposure to these chemicals does not occur under normal handling conditions. Inhalation of dust that may be generated in cutting or other processing may cause eye and respiratory irritation. Prolonged inhalation of dust may cause lung damage and cancer. Minimize exposure to airborne dust.

Potential Health Effects

Eye Contact	Dust may cause irritation and mechanical, abrasion injury.
Skin Contact	No irritation or other adverse effects are expected
Ingestion	No toxic effects are expected. Ingestion of large amounts may cause gastrointestinal irritation.
Inhalation	Inhalation of dust that may be generated in processing may cause throat and upper respiratory tract irritation.
Chronic Hazards	Prolonged inhalation of dust may cause a fibrotic lung disease (Pneumoconiosis) and lung cancer. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with pneumoconiosis are predisposed to develop tuberculosis.
Medical Conditions Aggravated By Exposure	Pre-existing lung conditions may be aggravated by exposure to dust.
Carcinogen	Respirable crystalline silica is listed as a known human carcinogen by IARC (Group 1) and NTP. None of the other components of this product are listed as a carcinogen by IARC, NTP or OSHA.

First Aid Measures

Eye Contact	Flush with plenty of water, especially under eyelids. Get medical attention if irritation persists.
Skin Contact	No adverse effects are expected. Wash with soap and water.
Ingestion	If irritation or other symptoms occur, get fresh air, get medical attention if irritation or symptoms persist
Inhalation	No adverse effects are expected. Consult a physician if large amounts are swallowed.

Fire Fighting Measures

Flash Point	Not Applicable
Flammability Limits	Not Applicable
Extinguishing Media	Use any extinguishing media that is appropriate for the surrounding fire. This product is an ordinary combustible. Water is most effective.
Special Fire Fighting Procedures	Fight as any normal fire using SCBA and full protective clothing where exposed to smoke.
Unusual Fire and Explosion Hazards	Solid product will burn slowly under fire conditions. Fine dusts that may be generated during processing may present a greater fire and explosion hazard.
Hazardous Combustion Products:	Thermal decomposition can yield carbon monoxide, carbon dioxide, and oxides of nitrogen, hydrogen cyanide and small amounts of aliphatic and aromatic hydrocarbons.

Accidental Release Measures

Pick-up solid gasket material for reuse or disposal. No special precautions required. For dust that may be generated, collect with methods such as vacuuming or wet wiping, that minimizes the generation of airborne dust. Only vacuum using a HEPA filter equipped vacuum cleaner.

Handling and Storage

Handling	Avoid creation and inhalation of dust. Provide local exhaust ventilation at points where dust may be generated during cutting and processing. Do not use compressed air for cleaning. Follow good housekeeping procedures to minimize the accumulation of dust in the workplace.
Storage	No special storage required.

Exposure Controls

Component	Exposure Limit / Source
Nitrile and Natural Rubbers	<ul style="list-style-type: none"> None Established
Aramid Fibre	<ul style="list-style-type: none"> None Established
Cellulose Fibre	<ul style="list-style-type: none"> 5mg/m³ (Respirable, 15mg/m³ (total dust) Time waited average OSHA permissible exposure limit. 2mg/m³ Time waited average (respirable) ACGIH (American Conference of Government Industrial Hygienists) threshold limit value.
Kaolin	<ul style="list-style-type: none"> 5 mg/m³ (respirable), 15 mg/ m³ (total dust) Time-weighted average OSHA Permissible Exposure Limit. 2 mg/m³ Time-weighted average (respirable) ACGIH (American Conference of Government Industrial Hygienists) Threshold Limit Value
Barium Sulphate	<ul style="list-style-type: none"> 5 mg/m³ (respirable, 15 mg/ m³ (total dust) Time-weighted average OSHA Permissible Exposure Limit. 10 mg/m³ Time-weighted average ACGIH (American Conference of Government Industrial Hygienists) Threshold Limit Value
Hydrated Amorphous Silica	<ul style="list-style-type: none"> 80 mg/m³ / %SiO₂ Time-weighted average OSHA Permissible Exposure Limit
Mica	<ul style="list-style-type: none"> 20 mppcfa Time-weighted average OSHA Permissible Exposure Limit. 3 mg/m³ Time-weighted average (respirable) ACGIH (American Conference of Government Industrial Hygienists) Threshold Limit Value
Zinc Oxide	<ul style="list-style-type: none"> 5 mg/m³ (respirable), 15 mg/ m³ (total dust) Time-weighted average OSHA Permissible Exposure Limit. 2 mg/m³ Time-weighted average (respirable) ACGIH (American Conference of Government Industrial Hygienists) Threshold Limit Value. 10 mg/m³ (respirable) Short-term exposure limit ACGIH (American Conference of Government Industrial Hygienists) Threshold Limit Value
Phenolic Resin	<ul style="list-style-type: none"> None Established
Crystalline Silica, quartz	<ul style="list-style-type: none"> 10 mg/m³ / %SiO₂ +2 Time-weighted average OSHA Permissible Exposure Limit. 0.025 mg/m³ Time-weighted average (respirable) ACGIH (American Conference of Government Industrial Hygienists) Threshold Limit Value

Personal Protection

Ventilation	No special ventilation required for handling solid gasket material. Local exhaust or process Enclosures may be needed if dust is generated in processing.
Respiratory Protection	None required for handling solid gasket material. If processing generates dust and Engineering controls are not available to control the exposures; appropriate respiratory protection may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.
Skin Protection	None required for handling solid gasket material. If dust is generated in processing, wear appropriate gloves.
Eye Protection	None required for handling solid gasket material. Follow facility requirements. If dust is generated in processing, wear safety goggles.
Other Protective Equipment	None normally required. Wear protective clothing in dusty environments.

Stability and Reactivity

Stability	Stable
Incompatibility / Conditions to avoid	Avoid contact with strong oxidiser and open flames
Hazardous Polymerization	Will not occur
Hazardous Decomposition	Thermal decomposition can yield carbon monoxide, carbon dioxide, and oxides of nitrogen, hydrogen cyanide and small amounts of aliphatic and aromatic hydrocarbons.

Toxicological Information

The hazardous components in this product are not volatile and bound in a polymer matrix so exposure to these chemicals does not occur under normal handling conditions. Prolonged inhalation of dust that may be generated in processing may cause lung disease and cancer. Inhalation of zinc oxide may cause metal fume fever, characterized by metallic taste in the mouth and flu-like symptoms. Symptoms resolve in 24-48 hours.

Environmental Information

These products are inert solids. They are not expected to present any hazard to the environment under normal conditions.

Disposal Considerations

Waste Disposal Method: These products may be classified as hazardous waste under US EPA RCRA regulations due to leachable barium content. Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

Transport Information

US DOT HAZARD CLASSIFICATION

Proper Shipping Name	Not Regulated
Technical Name	Not Applicable
UN Number	Not Applicable
Hazard Class / Packing Group	Not Applicable
Labels Required	None

Disclaimer

To the best of our knowledge the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy or completeness of such information. We strongly recommend that users seek and adhere to the manufacturer's or supplier's current instructions for handling each material they use and they satisfy themselves that they can meet all applicable safety and health standards. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.