BRUNEI FERTILIZER INDUSTRIES

COMMUNITY SAFETY GUIDELINE

INFORMATION BOOKLET

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About BFI

Brunei Fertilizer Industries Sdn. Bhd. (BFI) was established on the 28th of October 2013 and is owned by the Government of Brunei Darussalam. It is the country's premier Ammonia and Urea Plant and also one of the largest single train fertilizer plants in Southeast Asia.

BFI's state-of-the-art plant sits on a 55-hectare site in Sungai Liang Industrial Park in the Belait District.

The project consists of an Ammonia Plant, Urea Synthesis and Granulation Plants, Offsite & Utilities Plant and a dedicated export jetty, the BFI Terminal.

The BFI Plant is primarily focused on the production and export of Granular Urea. With a main feedstock of natural gas and raw water both sourced domestically, the BFI Plant has a production nameplate capacity of **2,200 metric tonnes per day of ammonia** which is fully converted to produce **3,900 metric tonnes per day of granular urea.**

With protecting the safety of its employees being a primary goal, BFI also earned its ISO45001 Occupational Health and Safety Accreditation in December 2024.

CERTIFIED
ISO 45001

www.bfi.com.bn

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Brunei Fertilizer Industries Sdn Bhd

Safety First!

At BFI, safety is our first priority in everything we do.

BFI stands fully compliant with the Workplace Safety & Health Order (WSHO) 2009 and adheres strictly to the Control of Major Accident Hazard Regulations (COMAH) Regulation 2017.

In 2020, BFI was awarded the Safety Case by SHENA Brunei (Safety, Health and Environment National Authority), a report detailing the safety-related aspects of the Plant and the procedures set in place to combat any potential risks or hazards that may occur.

BFI has also been granted a License to Operate (LTO) for Plant operations by Petroleum Authority of Brunei Darussalam and its jetty, the BFI Terminal (BFIT) by Muara Port Authority Brunei Darussalam to carry out operational activities. Additionally, the company also holds other licenses in effect such as the International Ship and Port Facility Security (ISPS) Code by the Maritime and Port Authority of Brunei Darussalam and Poison License authorised by the Ministry of Health, Brunei Darussalam.

Emergency Readiness

Plans for emergencies outlining the specific teams and emergency flow of command in detail are prepared and on-standby, because such incidents cannot be ruled out completely.

BFI has established an Incident Command Team and its emergency plans are constantly updated and reviewed, in cooperation with various relevant government agencies, authorities and its stakeholder community. Notices are also issued out to the Liang-Lumut community members on an ad-hoc but timely basis in the event of any planned/unplanned operational activity, with BFI's emergency contact numbers and representatives listed for ease of contact. The nearest Fire Brigade station, SPARK Bomba Station, is situated within the SPARK area and BFI also has its own Site Clinic and Ambulance on stand-by within the Plant facility area.

The BFI Plant facility is also fenced in, where the entire area is patrolled 24 hours a day and with video surveillance. The employees, visitors and vehicle traffic access is made through monitored gates with controlled access.

Feedstock

Natural Gas

BFI exclusively uses natural gas (mainly Methane) as its raw feedstock, supplied to the Plant via a pipeline originating from the Brunei Shell Petroleum (BSP) natural gas plant, Brunei LNG.

The delivery process is facilitated via the Fiscal Metering Station 2 (FMS2), along with a pressure control station. Both of these components are under the supervision of BSP and are operated by the same entity.

Intermediate & Final Products

With a feedstock of natural gas and raw water both sourced domestically, there are a two additional raw materials required to be produced in order to complete the production of BFI's final product, Granular Urea, which are:

- Hydrogen Gas
- Ammonia

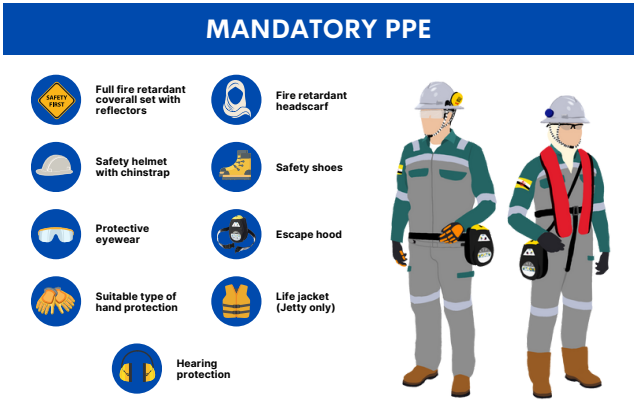
The table below provides a brief description, purpose and hazardous properties of each material and product:

Material/Product	Description & Purpose	Hazardous Properties
Hydrogen	Hydrogen gas is generated as a product within our processing operations through steam reforming of natural gas. It holds the status of a raw material with obtaining Nitrogen gas from the air, pivotal in the production of Ammonia.	Colourless, non-toxic gas with no colour or odour. Highly flammable. Irritating to the skin and the respiratory system. High concentrations can be fatal. Non-carcinogenic.
Ammonia	Ammonia is an essential component in fertilizer production. It can exist in gas or liquid form. Ammonia stays within our pipeline and processing unit.	Colourless gas with pungent odour. Toxic by inhalation. Flamable.
Urea	With a 46% nitrogen content, granular urea is an important fertilizer facilitating the better growth of plants and crops.	Solid odourless white pellets. Non-toxic. Non-flammable. Melts when in contact with water.

Safety Measures

Mandatory Personal Protective Equipment (PPE)

BFI has a mandatory and strict Personal Protective Equipment (PPE) requirement for all its employees, contractors and visitors in order to be granted entry into the Plant area.



In Case Of Emergencies

Based on the possible emergency scenarios identified, BFI has developed an external emergency plan, with intervention procedures in the event of a possible emergency situation.

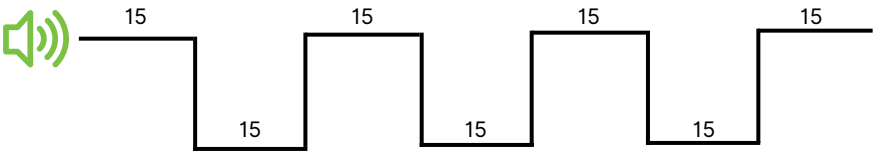
Every individual who is present at the affected area must follow these instructions:

Cover your mouth and nose while seeking shelter using wet material such as a towel or handkerchief.

Everyone in the Plant is provided and protected by an escape hood & all necessary protection equipment.

1. Fire Alarm

A possible fire emergency situation can be identified by the fire alarm sound emitting a consistent ringing of every 15 seconds. Assemble at the designated assembly point upon hearing this alarm.

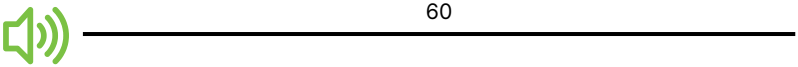


2. Evacuation Alarm

All personnel present at the BFI Plant shall move to the secondary assembly point. At this stage, the Plant is no longer safe. The Plant will be taken over by the District Disaster Management Committee. The alarm is a whaling sound.

3. All Clear Alarm

Indicates that the Plant is safe and everyone can return back to their normal activities. Alarm is continuous for 1 minute.



In-Land Transportation of BFI's Product

BFI'S GRANULAR UREA PRODUCT

BFI's product is urea in solid and granular form, which is transported daily in the patented designed Green Rotainer. Urea is a white, crystalline compound which is non-flammable substance. When urea granules are exposed to fire, it melts and the urea molecules will eventually decompose and break down into simpler, non-flammable substances mainly consisting of carbon dioxide, nitrogen and others. It is considered as a non-dangerous goods according to international regulations of IMDG (International code for the Maritime Transport of Dangerous Goods) and Directive 67/548/EEC (European Union Regulations).

ENVIRONMENTAL IMPACT

BFI's urea product is a nitrogen based fertilizer which can be handled manually by farmers with no pollution impact to the environment.

PRODUCT TRANSPORTATION

BFI has implemented various controls on the transportation of its urea product via third-party contractors using BFI's Rotainers, starting from continuous risk assessments to identify potential hazards on the road to the implementation of strict safety controls (e.g. installation of a Fatigue Management System which can also monitor the journey of the truck). In the event of violations by its trailer transport drivers, strict disciplinary measures are taken, up to and including termination of the driver's contract.

Driver requirements begin with at least 5 years of experience behind the wheel of a trailer, mandatory defensive driving certification, and a mentoring program for all drivers with less than 5 years of experience behind the wheel of a trailer.

In terms of fatigue management, BFI monitors the health of drivers by requiring all drivers to submit an up-to-date medical report. On a daily basis, BFI has also set a limit of 2 trips per day for each driver.

Contact

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Brunei Fertilizer Industries Sdn Bhd

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