



# CHISU

## EMERGENCY RESPONSE PLAN

This ERP addresses various emergency situations that could occur, including who to contact, how to act in emergency, how to mitigate risks and what resource to use to minimize loss.

*August 2020*

This **Emergency Response Plan** (ERP) has been developed for the Transportation of explosives, Fuel and lube by Chisu International and Chisu Mining Services N.V. intended to provide:

- Information that is critical in the earliest stages of an emergency response
- A framework to guide responders through the key steps necessary to mount an effective response.

*Whenever material is stored at Non Chisu locations (e.g. Explosives, Fuel and Lube at Military locations and under Military supervision at major companies) Chisu will follow the ERP of the Owner of the Location (e.g, the Military or the Mining Company).*

This plan includes the following procedures:

- 1) Procedures to use upon discovering the emergency incident
- 2) Procedures to notify the appropriate people
- 3) Procedures to initiate the appropriate response actions, including evacuation if necessary.

This ERP contains the following information:

- Emergency Response Coordinator Information
- Discovery and Alert Procedures
- Emergency Notification Phone List – both internal and external
- Evacuation Plan
- Immediate Actions to protect employees/public, control/contain release, recover/dispose of residues

#### **A. Emergency Response Coordinator Information**

The Emergency Response Coordinators shall be notified of all emergency situations including but not limited to spills on soils and water, releases of hazardous substances, and major fires and explosions. **The First Contacts are the Chisu Emergency Response Coordinators as mentioned below.** The Emergency Response Coordinator is authorized to commit the necessary resources to implement this ERP, including the authority to call for outside assistance if that course of action is necessary.

**Primary Emergency Response Coordinator:**

Name : **Dwight Fung a Foek**  
Title : **Manager Chisu International**  
Address : **Mr E. Brumastraat 68**  
Office Phone : **478272 426445**  
Home Emergency Phone : **426445**  
Mobile Phone : **8627867**

**First Alternate Emergency Response Coordinator:**

Name : **Marcel Chiu Hung**  
Title : **Co-Director Chisu International**  
Address : **Siriusstraat 24**  
Office phone : **478273**  
Home Emergency Phone : **455671**  
Mobile Phone : **8775519**

The **Emergency Response Coordinator** shall be responsible for the following actions whenever there is an imminent or actual emergency situation:

- Notify the Government Fire department in case of Fire Emergencies
- Notify all response personnel, (e.g. Military, Police Medical Unit or other agencies having designated response roles) if their help is needed
- Coordinate rescue and response actions as previously arranged with all response personnel
- During a release, fire, or explosion, identify the character, exact source, amount, and aerial extent of the released materials, as well as the other items needed for notification (i.e., extent of injuries)
- Assess the possible hazards to human health and the environment due to the release. This assessment must consider both the direct and indirect effects of the release (i.e., the effects of any toxic, irritating, or asphyxiating gases that may be generated, or the effects of any hazardous surface water runoffs from the water or chemical agents used to control fire and heat-induced explosion
- If this assessment indicates that evacuation of local areas may be advisable he must: 1) notify and confer with appropriate local authorities regarding whether or not local areas should be evacuated; and 2) notify either the government official designated as the on-scene coordinator for that specific geographical area or the National Response Center and include all of the pertinent information

- During the emergency, take all reasonable measures to ensure that fires, explosions, or releases do not occur, recur, or spread to other hazardous areas in the facility
- Evaluate the need to stop other processes or operations that may interfere with response procedures
- Direct the monitoring for leaks, pressure buildup, gas generation, or pipe/valve ruptures following the stoppage of production operations during the emergency
- Assess the interaction of the spilled substance with water and/or other substances stored at the facility and notify response personnel at the scene of that assessment (e.g., necessity to remove and isolate containers of incompatible materials)
- Immediately after the emergency, provide for treating, storing, or disposing of any recovered wastes, contaminated soil or water associated with the emergency event
- Obtain authority to immediately access company funding to initiate cleanup activities
- Direct cleanup activities until properly relieved of this responsibility
- In the affected area(s) of this facility ensure that: 1) no waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed;
- Conduct periodic spill prevention briefings to review known spill events, malfunctioning equipment, and to discuss recently developed preventive measures.
- In the event of an environmental emergency or spill event act as one-point command and control authority during response activities.
- Act as liaison with government agencies
- Spill containment and countermeasures activities (both internal and contracted services)
- Work with governmental agencies to ensure that adequate planning is done to ensure appropriate responses and facilitate communications in the event of a spill, emergency, or disaster occurrence.
- Ensure that logistical support is available prior to and during a spill or emergency event.

## **B. Discovery and Alert Procedures**

If a minor leak, spill, release or fire occurs, the individual discovering the incident should attempt to locate and eliminate the source. If possible, he/she should try to stop or at least contain the release. This can involve closing valves, turning drums upright, activating emergency pumps, using adsorbent materials, or extinguishing the fire. Caution is advised here as these measures should only be undertaken if they can be accomplished without any risk both to the individual, as well as other employees in the vicinity. The discoverer should respond to the situation based on his/her knowledge, and the level of training as well as an assessment of the situation that the initial response will not make the situation worse. If the source is not immediately obvious or if these measures are not effective and

the situation is beyond his control, then the discoverer should initiate the following emergency procedures:

1. The discoverer of an emergency should first contact the Chisu Response Coordinator.
2. The discoverer of the emergency should pass along the following information:
  - a. Exact location of the emergency event
  - b. Type and description of the emergency
  - c. Estimate of the amount of material released, or the size of the fire
  - d. Extent of injury or property damage incurred
  - e. Extent of the actual and potential environmental damage
  - f. Remedial action taken, if any

**C. Emergency Notification Phone List**

<b>GENERAL EMERGENCY RESPONSE</b>	Chisu Office	
• EMERGENCY DISPATCHER (Chisu Office Neumanpad 46)	478272 / 478273 / 426445	
<b>PRIMARY EMERGENCY RESPONSE COORDINATOR</b>		
• <b>Dwight Fung A Foek</b>	Work #	478272 / 426445
	Mobile #	8627867
<b>1st ALTERNATE EMERGENCY RESPONSE COORD.</b>		
• <b>Marcel Chiu Hung</b>	Work #:	478273
	Mobile #:	8775519
	Home #:	455671
<b>2nd ALTERNATE EMERGENCY RESPONSE COORD.</b>		
* <b>Ruben Mendonca</b>	Work #:	478272
	Mobile #	8106010
<b>OUTSIDE AGENCIES</b>	Phone Numbers	
<b>FIRE EMERGENCY RESPONSE</b>		
• FIRE EMERGENCY ALARM	110	
• POLICE EMERGENCY ALARM	115	

<b>EMS SERVICES</b>	
• SEH (Spoed Eisende Hulp) FIRST AID	113 / 442288
<b>HOSPITALS</b>	
• ACADEMISCH ZIEKENHUIS/FIRST AID	112 / 442288 / 442222 / 441511 /
• DIAKONESSEN ZIEKENHUIS	499644
• ST. VINCENTIUS ZIEKENHUIS	471212
• S' LANDS HOSPITAAL	473655
• COVID-19 MAGEMENT TEAM	426416 / 520840 / 451511(ext.226)
<b>PORT AUTHORITIES</b>	
• MARITIEME AUTHORITEIT SURINAME	476733 / 474575
• N.V. HAVENBEHEER SURINAME	400666 / 404044
<b>ENVIRONMENTAL AGENCIES</b>	
• NIMOS	499044 / 520043 / 520045 - 48
• MINISTRY OF PUBLIC HEALTH	410441
<b>GENERAL EMERGENCY RESPONSE AGENCIES</b>	
• NATIONAAL CENTRUM RAMPEN BESTRIJDING	520840/426416/474320
• MILITARY FORCE MARINE	0370320/ 0370344
• MILITARY FORCE (BOMB SQUAD)	497759
<b>CHISU MANAGEMENT</b>	
• Leo Hung – Managing Director	+1 305 2138899
• Marcel Chiu Hung – Co Director	877551
• Ruben Mendonca - Manager	8106010
• Dwight Fung A Foek -Financial Manager	8627867

## POSSIBLE EMERGENCY SITUATIONS

### Releases to rivers streams Ponds/ Lagoons

Every attempt will be made to limit the amount of spilled materials that could enter rivers, streams and lakes/lagoons. In the event that a major spill enters these areas the Emergency Coordinator should notify Police Military and NCCR

**Releases to Soil**

Should a release occur onto soils or gravel areas, the employee discovering the release will immediately attempt to stop the source of the leak, or to move it to a contained area. Once the source has been eliminated, sorbent materials will be utilized or artificial dikes constructed to contain the release. Spilled materials will be collected and the affected soils or gravel excavated with a backhoe or shovels to be disposed at the land farm. If the spill is uncontrolled the Emergency Coordinator should notify the Police, Military and NCCR

**Releases to Receiving Streams**

Should a spill or release threaten a stream in or near the facility, an attempt will be made to contain the spilled material at the source, if possible. If the material is moving across land, diversionary dikes, ditches or banks will be placed using hand tools or heavy machinery to contain or divert the material prior to reaching the stream or other sensitive receptors. If the spilled material reaches a receiving stream and/or becomes uncontrolled the Emergency Coordinator should contact Police, Military and NCCR.

Before transport the Delivery Note must give a clear description of the items and the amount transported. Also scoops and empty bags (spill kit) should be available during transportation. The table below gives a good example how spilled material should be retrieved and disposed

**Disposal Table**

Product Name	Hazard classification	way to retrieve	PPE	Way of disposal
Senatel Magnafrac	1.1	Collect and count and put back in boxes or bags	Safety Gloves, Glasses ,shoes	Detonation /Burning
Exel Handidet	1.1	Collect and count and put back in boxes or bags	Safety Gloves, Glasses ,shoes	Detonation
Exel Connectadet	1.4	Collect and count and put back in boxes or bags	Safety Gloves, Glasses ,shoes	Detonation
Pentax Boosters	1.1	Collect and count and put back in boxes or bags	Safety Gloves, Glasses ,shoes	Detonation
Down the hole detonators	1.1	Collect and count and put back in boxes or bags	Safety Gloves, Glasses ,shoes	Detonation
Anfo	1.3	scoop up and put in bags	Safety Gloves, Glasses ,shoes and respirator	Burning
Ammonium Nitrate	1.5	scoop up and put in bags	Safety Gloves, Glasses ,shoes and dust mask	Burning
Bulk emulsion	5.1	scoop up and put in bags	Safety Gloves, Glasses ,shoes	detonation
Lead In line	1.4	Collect , measure and put back in boxes or bags	Safety Gloves, Glasses ,shoes	detonation

Chisu Lead in Line	1.4	Collect, measure and put back in box or bag	Safety gloves, glasses, shoes	Detonation
Chisu Double Detonator	1.1	Collect and count and put back in boxes or bags	Safety gloves, glasses, shoes	Detonation
Chisu Surface Connector	1.4	Collect and count and put back in boxes or bags	Safety gloves, glasses, shoes	Detonation
Chisu ANFO	1.3	Scoop up and put in bags	Safety gloves, glasses, shoes	Burning



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**Fires and Explosions**

In case of a minor fire breakout at one of our facilities, the employee discovering the incident will immediately attempt to extinguish the fire. He should then notify the Emergency coordinator, Should a major fire, explosions or an unplanned release of a hazardous material occur, the individual discovering will immediately should be initiated notify the Emergency coordinator  
In the event of a fire or explosion the following response

**1. Remain Calm**

Do not panic. Panic will allow you to make wrong judgments.

**2. Act quickly to extinguish the fire**

- If it is a minor fire, secure a fire extinguisher and extinguish the fire, if in doing so does exceed the level of training the employee has had for responding to fires.

- Do not jeopardize yourself or others personal safety
- Do not allow the fire to come between you and your exit
- Do not try to extinguish the fire if:
  - You do not know what is burning
  - The fire is spreading rapidly
  - You do not have the proper firefighting equipment
  - You might inhale toxic smoke/fumes
  - You cannot extinguish the fire with your back to an exit
  - Your instincts tell you not to do so

- Shut off all valves or supply lines that may be feeding the fire.

- Activate any automatic fire suppression systems.

**3. Shut Off/ Remove Fuel Sources**

- Shut Off product supply lines/ pumps that could feed the fire or lead to an increase of the conflagration.

- Remove portable containers or storage tanks from the area threatened by the fire or Explosion.

**4. Make Notifications**

- Contact Chisu Emergency coordinator to report event and supply the necessary information to facilitate proper response by the Fire Brigade. The following information needs to be provided :

- Your Name
- The precise nature of the fire/explosion and its location
- Whether injuries have occurred

- Possible hazards which may affect Emergency Personnel Response
- A phone number (near the scene) where you can be reached

## 5. Warn Personnel

- If you are not successful to extinguish the fire at the first attempt evacuate the building warn personnel to evacuate the building immediately

- Evacuate building using the nearest exit.
- Do not open a hot door. Before opening a door, touch it near the top. If it is hot or if smoke is visible. Do not open, there is probably a fire on the other side.
- Do not use elevators.
- Do not attempt to gather possessions.
- Do not return back into your area until you are notified it is safe to do so by the appropriate authority
- Do not telephone relatives or the relatives of injured/ missing persons.
- Secure the area of the fire to prevent personnel from entering the danger area.

## 6. Initiate Containment

In the event that fire brigade is dispatched to extinguish a fire from a spill or a spill occurs during the fire extinguishing efforts, action must be taken to contain contaminant-laden firefighting water.

- Secure drain blocks and begin blocking drain openings that could receive fire-extinguishing water.
- Construct temporary earthen dikes to contain contaminant-laden fire extinguishing water.
- Construct diversionary structures to divert contaminant-laden fire extinguishing water into a retention area.

## 7. Clean Up

Use procedures for cleanup to cleanup these types of releases

### **Response to Weather Related Emergencies (floods etc.)**

#### ***Initial Actions***

- Emergency coordinator to monitor weather condition

**Bomb Threats**

Personnel Endangerment

**At no time will any Chisu employee, Support employees or visitors knowingly be put in a position for a possible physical injury caused by a bomb threat incident.**

**Initial Actions**

- Remain calm

**Report**

If the Bomb threat comes in through your telephone:

Contact the Military or Emergency Coordinator

**Response:**

- Emergency coordinator will contact all personnel on the Manager Notification List.
- If there is less than 30 minutes before the alleged bomb is to go off, evacuate the area of threat.

The most popular method of making bomb threats is by telephone. It is important that as much information as possible be received from the caller.

**Threats by Phone**

Every person who is subject to receive a telephone bomb threat message should be instructed on how to handle the situation effectively. In the event a call is received, the following procedure should be followed:

- Stay calm, be courteous, and do not display fear.
- Activate telephone recording unit, if available.
- Listen carefully. Take notes of exact time the call was received, the exact words of the caller and all details during or immediately after the conversation, such as gender of caller, accent, attitude, background noises, and motive.

- Advise the caller that the building or facility may be occupied and the explosion could result in death or serious injury to many innocent people.
- Keep the caller talking; the more they say, the more helpful the information. If the caller does not indicate the location of the bomb or the time of detonation, ask what time it will go off and where it is located.
- After the phone call, notify (identify) who will take charge of the situation.
- Do not discuss the call with anyone else unless authorized to do so.

### **Specific instructions for persons handling the Bomb Threat phone call**

1. Do not hang up or put down the phone.
2. Try to keep the caller talking (e.g. pretend there is a bad connection, ask to speak up).
3. Register time of the call
4. Write exact message originally received
5. Was the message: Read or Spontaneous

#### **- If caller is willing to keep talking, ask the following Critical Questions**

(The more information you can get, the easier it will be to assess whether the call is genuine.)

- When will the bomb go off (what time; time remaining before it will go off)
- Where is the bomb located (which building; which area; which room)
- What kind of bomb is it (what type; type of explosive)
- What does the bomb look like (shape; construction)
- Who/What is the target (which person; what building)
- How many bombs are there (number of bombs)
- When was it placed (what date; what time)
- What will cause it to explode (what kind of detonator)
- Do you know there are people in the building?
- How do you know so much about bombs (did you receive any training; where did you get your knowledge from)
- Where are you calling from?
- Who are you?
- How did you get into this office?

6. After the phone call report the incident immediately to your Manager

**Threats by Mail**

Following are the instructions on how to handle bomb threats received by mail. The most likely recipients are employees of the Purchasing Department Mailroom personnel and Secretaries.

- Place all papers and envelopes associated with the threat in a bag or large envelope (clear plastic bag if possible). Pick up any bomb threat note only by the edge.
- Do not handle the written threat any more than absolutely necessary.
- Do not allow anyone else to touch the note unless specifically authorized by senior management.

**Emergency Response Coordinator Responsibility**

In all cases of bomb threat, the Emergency Response Coordinator should assess the seriousness of the threat.