



# Mixer

MS-M-AU-1450



## OPERATOR'S MANUAL

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## **INTRODUCTION**

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Thank you for purchasing a MAKINEX product.

This manual provides information and procedures to safely operate and maintain the **MS-M-AU-1450**. For your own safety and protection from injury, carefully read, understand, and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact MAKINEX. This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced. If there are any questions regarding operating or servicing of this machine, please contact MAKINEX.

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Any type of reproduction or distribution not authorized by MAKINEX represents an infringement of valid copyrights and will be prosecuted. We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

## **DISCLAIMER**

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MAKINEX and its affiliates take no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this product. Use of this product should be undertaken by competent persons only. It is the operator's responsibility to ensure that the following safety procedures are followed. If you are unsure, do not operate this product.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty enquiries.






<b>MAKINEX SUPPORT</b>
<b>Refer to contact details on pg. 11</b>
<b>MODEL NO.</b>
<b>MS-M-AU-1450</b>
<b>SERIAL NO.</b>
<b>DATE OF PURCHASE</b>
<b>PURCHASE LOCATION</b>

## ABOUT THIS MANUAL

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This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment. Follow all safety messages to avoid or reduce the risk of serious injury or death.

### KEY TERMS




 <b>READ CAREFULLY</b>	<b>READ CAREFULLY</b> – refers to <b>important information</b> that should be paid careful attention.
 <b>CAUTION</b>	<b>CAUTION</b> - indicates a situation that <b>may</b> cause injury or damage to the machine if the user does not follow the instructions.
 <b>WARNING</b>	<b>WARNING</b> – indicates a situation that <b>may</b> cause injury or death if the user does not follow the instructions correctly.
 <b>DANGER</b>	<b>DANGER</b> – indicates a situation that <b>will</b> cause injury or death if the user does not follow the instructions as written.
 <b>PROHIBITED</b>	<b>PROHIBITED</b> – identifies actions that <b>should never</b> be carried out by anyone interacting with the equipment.

These safety warnings do not eliminate all possible hazards that could occur therefore it is essential to use common sense and to strictly follow any instructions to prevent accidents.

### SAFETY INFORMATION

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Throughout this document there are several safety warnings. The user should read through this complete document before using the **MS-M-AU-1450**.

 <b>READ CAREFULLY</b>	Ensure you read all information contained in this manual before using the <b>MS-M-AU-1450</b> .
 <b>READ CAREFULLY</b>	Ensure you read the User Manual and safety instructions for the <b>MS-M-AU-1450</b> and other components that are part of this unit. See Appendix for more information.
 <b>DANGER</b>	Always wear the recommended personal protective equipment (PPE).



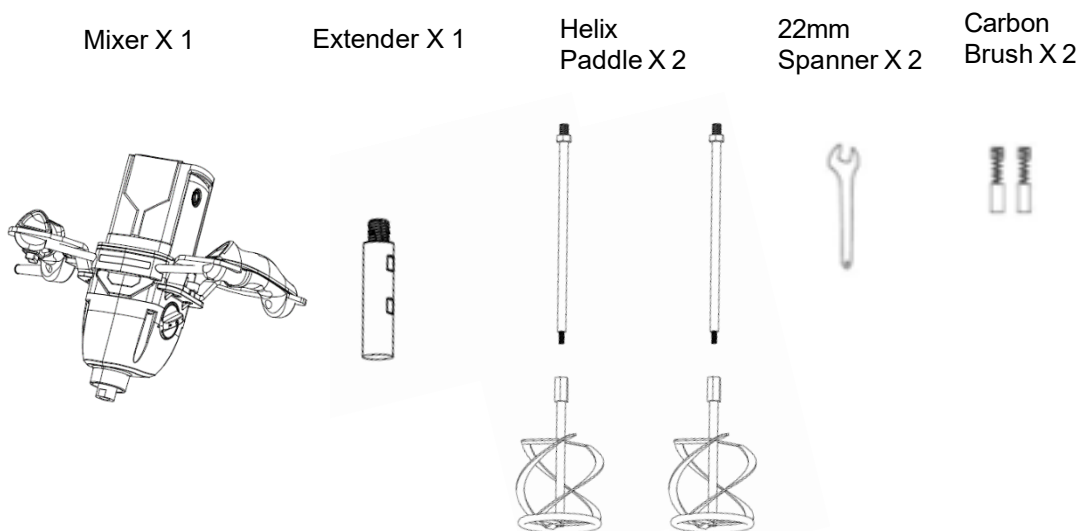
Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

## PRODUCT DESCRIPTION AND SPECIFICATION

**MS-M-AU-1450** is the ultimate mixer for all self-levelling cement and compounds, producing a perfect mix every time. Designed by contractors for contractors it provides efficient hands- free mixing and fast precision pouring of materials saving time and effort on jobs.

An **MS-M-AU-1450** mixer can mix up to 25kg (55.1 lbs) (1 x 20kg bags plus water). The **MS-M-AU-1450** is ultra-lightweight for easy transportation and the ergonomic design with easy-tilt operation provides control and speed for precision pouring.


### WHAT'S IN THE BOX





MAKINEX 1450W MIXER TECHNICAL DATA		
NO-LOAD SPEED	1 <sup>ST</sup> GEAR	150 – 300 rpm
	2 <sup>ND</sup> GEAR	300 – 650rpm
OUTPUT SHAFT THREAD		M14
WEIGHT		7kg (15.4 lbs)
CLASS OF PROTECTION		II
SOFT START		YES
OVER CURRENT PROTECTION		YES
OVER HEATING PROTECTION		YES


MAKINEX 1450W MIXER ELECTRICAL DATA				
JURISDICTION	AU	EU	UK	US
VOLTAGE	230V	230V	-	-
CURRENT	6.3A	6.3A	-	-
FREQUENCY	50Hz	50Hz	-	-

## INSTRUCTIONS FOR USE


 <b>WARNING</b>	<p><b>NEVER</b> operate the <b>MS-M-AU-1450</b> without wearing the appropriate personal protective equipment (PPE) including appropriate footwear. Assess the surrounding area for hazards. Ensure that any loose clothing and long hair is firmly tied back.</p>
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 <b>WARNING</b>	<p><b>ALWAYS</b> seek appropriate First Aid if Injury, Poisoning or Irritation occurs due to contact with Materials and Substances.</p>
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 <b>CAUTION</b>	<p><b>ALWAYS</b> ensure that the workplace is well ventilated.</p>
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 <b>CAUTION</b>	<p><b>ALWAYS</b> use dedicated mains power supply with extension lead not exceeding 10 meters / 11 yards.</p>
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## STEP 1 – ASSEMBLING THE PADDLE/ MIXER TO THE MS-M-AU-1450

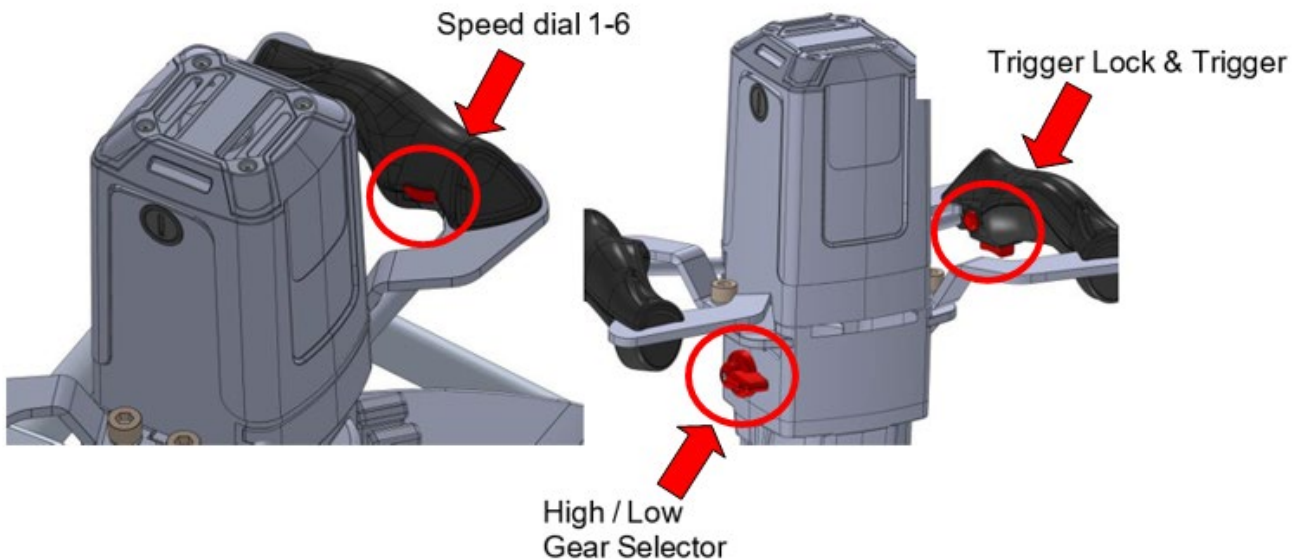
 <b>WARNING</b>	<p>Ensure the Mixer is disconnected from mains power before Attaching or Removing it to / from the <b>MS-M-AU-1450</b> mixer.</p>
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 <b>WARNING</b>	<p><b>CHECK</b> the electrical lead and plug for damage before use of the Mixer. Do not use the Mixer if there is evidence of damage.</p>
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1.

 <b>READ CAREFULLY</b>	<p>Read material manufacturer's instructions before mixing</p>
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2. Make sure Makinex Electric Mixer is switched to low gear (1<sup>st</sup> Gear) and speed 1.
3. Plug in Makinex Electric Mixer to extension cord to Mains Power.
4. Press Trigger to turn 'ON' mixer and lock in Trigger.



5. Start adding Bags of Levelling Compound one at a time.
6. Leave Makinex Electric Mixer on low-speed gear (1<sup>st</sup> Gear). The mixing speed can also be adjusted using the speed dial (there are six speeds)
7. After bag of Levelling Compound has been added, STOP the Makinex Electric Mixer and THEN switch to high-speed gear (2<sup>nd</sup> Gear). It may be necessary to rotate the helix paddle forward and backwards slightly by hand to engage the gear. Restart the mixer. It is not recommended to exceed speed 3 when in gear 2.

**NOTE: After the bag of Levelling Compound has been added, the whole mixing operation should take approximately 2 minutes.**

8. During mixing, wait for 30 seconds as the compound is being mixed; turn 'OFF' Mixer temporarily and scrape off any excess powder that has gathered around top of bucket.
9. Switch Mixer back 'ON' and return to Maximum Power until Levelling Compound is mixed to a lump-free consistency.
10. Once equal consistency has been achieved, turn off the Makinex Electric Mixer.
11. Unplug Makinex Electric Mixer from extension cord; wind-up the Power Cord on the **MS-M-AU-1450**.

## **STEP 2 – MAINTAINING THE MS-M-AU-1450**

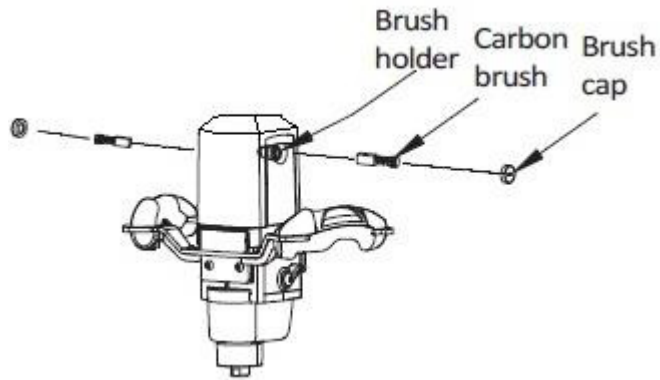


**CAUTION**

**ALWAYS** check surrounding when maintain the **MS-M-AU-1450**.

1. It is very important to clean the equipment after use. Use water or a high-pressure hose to clean all Levelling Compound from the **MS-M-AU-1450**,
2. Extra attention should be focused on cleaning the paddle location using water near the mixer as the **MS-M-AU-1450** contains electronics.

3. The ventilation slots on the Makinex Electric Mixer motor casing should be cleaned out periodically
4. After 100 hours of operation check the carbon brushes in the Makinex Electric Mixer. When the carbon brushes are worn see the diagram below to replace the carbon brush. One pair of replacement carbon brushes are included. Remove the brush cap with a flat blade screwdriver and remove the worn carbon brush. Place new carbon brush into the brush holder inside. Replace and tighten brush caps with flat blade screwdriver.



5. After 200 hours of operation renew the grease filling the gearbox.



## **LIMITED WARRANTY**

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To take advantage of the MAKINEX limited warranty, you must have maintenance performed by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified persons, and this will not affect your statutory warranties, however, failure by the owner to have the recommended servicing carried out by an authorised MAKINEX dealer/service technician means that you cannot take advantage of the MAKINEX limited warranty.

MAKINEX warrants each new mixer to be free from defects in material and workmanship under normal domestic and industrial use and service for the period specified below, conditional to the limitations and exclusions printed on this page. This warranty applies only to new MAKINEX mixer distributed by us and by our authorised MAKINEX dealers.

Under the limited warranty and at MAKINEX's discretion, upon evaluation, inspection and testing by a MAKINEX dealer or a MAKINEX service technician, MAKINEX will repair and replace of defective part(s).

AUSTRALIA: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

### **WARRANTY: (Ex-factory/ Reseller premise)**

MAKINEX warrants to the original purchaser:

- MAKINEX provides a Limited One Year Warranty that applies to MS-M-AU-1450 Mixer.
- Warranty only applies to the original purchaser and is not transferable.

## **WARRANTY EXCLUSIONS**

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- Warranty does not cover wear and tear, breakage, misuse or theft.
- Warranty does not cover consumables (e.g., carbon brushes)
- Warranty will not apply to parts and/or labour if the Mixer is deemed to be misused, neglected, installed improperly or set up incorrectly.
- Cosmetic defects such as decals and coating.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original MAKINEX parts.
- Expedited freight costs.

## **OWNER'S RESPONSIBILITY UNDER THIS LIMITED WARRANTY**

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Strict adherence to the maintenance checks and schedule with proof of scheduled maintenance service required by an authorised agent or qualified mechanic. It is the consumer's responsibility to deliver the machine in question to our service premises or to the premises of our appointed agent at the consumer's expense for replacement or repair as applicable. Maintenance services are not covered under warranty.

### **Claim Procedure**

- Contact MAKINEX by phone or email informing us of your machines problem or defect.
- Once the extent of the claim has been assessed, we retain the right to compensate the consumer for such defect, or repair (parts & labour), or replace the machine under warranty.
- All warranties will be carried out by MAKINEX authorised staff or appointed agents at a premise to be determined by the Manufacturer.
- It is the responsibility (and cost) of MAKINEX or our appointed agent to return the machine to be repaired or replaced under warranty to the consumer- this is valid for domestic territories only (e.g., machine purchased in USA will repaired/replaced under warranty and returned to the USA consumer. Machine purchased in Australia will be repaired/replaced under warranty and returned to the Australian consumer, machine purchased in Europe will be repaired/replaced under warranty and returned to the consumer of that specific European nation etc.)
- Warranty calls will only be carried out by our representatives and not via client's choice of repairer. We will not accept back charges for any work not carried out by our representatives or accept any charges due to equipment being un-operational for any reason even during its warranty period.

## CONTACT INFORMATION

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For sales, service, warranty and parts for all MAKINEX products; please refer below.

	<b>SALES, SERVICE, SPARE PARTS &amp; WARRANTY</b>
<b>AUSTRALIA</b>	<p style="text-align: center;"><b><u>SALES</u></b></p> <p style="text-align: center;">TEL 1300 795 953 or +61 2 9460 8071 WEB <a href="http://www.makinex.com.au">www.makinex.com.au</a></p> <p style="text-align: center;"><b><u>SERVICE, SPARE PARTS &amp; WARRANTY</u></b></p> <p style="text-align: center;">SALES EMAIL <a href="mailto:sales@makinex.com.au">sales@makinex.com.au</a> SERVICE EMAIL <a href="mailto:service@makinex.com.au">service@makinex.com.au</a></p>
<b>USA</b>	<p style="text-align: center;"><b><u>SALES</u></b></p> <p style="text-align: center;">TEL +1 855-625-4639 WEB <a href="http://www.makinex.com">www.makinex.com</a></p> <p style="text-align: center;"><b><u>SERVICE, SPARE PARTS &amp; WARRANTY</u></b></p> <p style="text-align: center;">SALES EMAIL <a href="mailto:sales@makinex.com">sales@makinex.com</a> SERVICE EMAIL <a href="mailto:service@makinex.com">service@makinex.com</a></p>
<b>UK</b>	<p style="text-align: center;">WEB <a href="http://www.makinex.co.uk">www.makinex.co.uk</a></p>
<b>EUROPE</b>	<p style="text-align: center;">WEB <a href="http://www.makinex.eu">www.makinex.eu</a></p>

**Or your nearest MAKINEX distributor**

We have very knowledgeable, experienced staff to assist you with help and advice.



# APPENDIX A – RISK ASSESSMENT

PRODUCT RISK / HAZARD ASSESSMENT TABLE						
PRODUCT NAME: Makinex Mixer 1450 AU SPEC		Assessment Carried Out By: Andy Leung				
MANUFACTURER: MAKINEX		Document Revision Number: A				
OPERATOR COMPETENCY: PLANT LICENCE NOT REQUIRED		Date Created: 8/08/2024				
No:	TYPE / NATURE OF RISK OR HAZARD	LIKELIHOOD LEVEL	INJURY LEVEL	RISK LEVEL	RISK / HAZARD CONTROL ACTION	
1.0	1.1 CRUSH FOOT/ TOES BY DROPPING THE MIXER	3 UNLIKELY	3 MINOR	3 LOW	1. FOLLOW THE SAFETY PROCEDURES FOR MIXER 2. WEAR APPROPRIATE PPE	
	1.2 CRUSH HAND/FINGERS CAUGHT IN MIXER BLADE DURING OPERATION	2 LIKELY	2 MAJOR	2 MEDIUM	1. ENSURE NO PART OF BODY IS ON MOVING PARTS DURING OPERATION	
2.0	2.1 ELECTROCUTION DUE TO DAMAGED LEAD BY RUNNING OVER OR CATCHING LEAD ON FOREIGN OBJECT WHEN MOVING UNIT AROUND	4 VERY UNLIKELY	1 FATALITY	1 HIGH	UNPLUG AND WIND THE CORD BEFORE MOVING MIXER	
	3.1 LOSS OF HEARING DUE TO LONG TERM USE	4 VERY UNLIKELY	2 MAJOR	2 MEDIUM	WEAR SUFFICIENT PPE (HEARING PROTECTION) AS PER LOCAL REGULATIONS	
3.0	3.2 FLAMES AND TOXIC DUST	1 VERY LIKELY	3 MINOR	1 HIGH	WEAR SUFFICIENT PPE (BREATHING MASK) AS PER LOCAL REGULATIONS	
	3.3 INJURY/STRAIN DUE TO BENDING BACK TO PICK UNIT UP	4 VERY UNLIKELY	3 MINOR	3 LOW	BEND WITH LEGS INSTEAD OF WITH BACK	
	3.4 INJURY - DUE TO TRIPPING ON POWER/EXTENSION CHORD	2 LIKELY	4 NEGLIGIBLE	3 LOW	ENSURE POWER/EXTENSION CORD IS POSITIONED OUT OF PATH OR BE AWARE OF CABLE AT ALL TIMES	
	3.5 LOSS OF CONTROL - DUE TO IMPROPER HANDLING	4 VERY UNLIKELY	3 MINOR	3 LOW	AT ALL TIMES, ENSURE BOTH HANDS ARE MAINTAINED ON THE UNIT	
	3.6 ENTANGLEMENT - DUE TO LACK OF ENVIRONMENT AWARENESS OF CHORD LOCATION	3 UNLIKELY	3 MINOR	3 LOW	ENSURE POWER/EXTENSION CORD IS POSITIONED OUT OF PATH OR BE AWARE OF CABLE AT ALL TIMES	

**NOTES:**

- > THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED AS A LEVELLING COMPOUND MIXER ONLY
- > THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:
  - 1. 'HAZPAK' PRODUCED BY THE WORK-COVER AUTHORITY AND
  - 2. THE AUSTRALIAN STANDARDS 4024.1.4/5 - 1996 "SAFEGUARDING OF MACHINERY - PART 1: GENERAL PRINCIPLES"
- > "LIKELIHOOD LEVEL" REFERS TO THE PROBABILITY OF AN EVENT HAPPENING. THE FOLLOWING SCALE HAS BEEN USED TO DESCRIBE THE LIKELIHOOD OF A DEFINED RISK / HAZARD EVENT OCCURRING DURING NORMAL OPERATION OF THE EQUIPMENT. NOTE THAT LIKELIHOOD EVALUATION IS QUALITATIVE AND BASED ON BEST ESTIMATION VIA CONSULTATION AND EXPERIENCE:
  - 1. VERY LIKELY
  - 2. LIKELY
  - 3. UNLIKELY
  - 4. VERY UNLIKELY
- > "INJURY LEVEL" REFERS TO THE SEVERITY OF INJURY CAUSED DUE TO AN EVENT OCCURRING, USING THE FOLLOWING SCALE AS DEFINED BY THE "HAZPAK" DOCUMENT:
  - 1. FATALITY = INJURIES RESULT IN DEATH
  - 2. MAJOR = NORMALLY IRREVERSIBLE INJURIES
  - 3. MINOR = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF
  - 4. NEGLIGIBLE = ABLE TO BE TREATED USING FIRST AID
- > "RISK LEVEL" REFERS TO THE SEVERITY OF A RISK BASED ON THE "LIKELIHOOD LEVEL" AND "INJURY LEVEL". INHERENTLY, AS THE CONSEQUENCE INCREASES IN SEVERITY, RISK INCREASES - EVEN WHEN LIKELIHOOD IS LOW - THE FOLLOWING SCALE HAS BEEN USED:
  - 1. HIGH = Potential Death, Permanent Disability, or Major Structural Damage.
  - 2. MEDIUM = Potential Temporary Disability, or Minor Structural Damage.
  - 3. LOW = Potential incident that has the potential to cause persons to require first aid.

