amt postpro®



BLAST X FA326 RA326 SPILL PROCEDURE

JANUARY 2022 // V1.1

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1 // RISKS AND SAFETY WARNINGS

⚠DANGER Danger indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

⚠WARNING Warning indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠CAUTION Caution indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

⚠DANGER **Chemical Hazard:** may cause severe skin burns and permanent eye damage, including blindness. The chemical may also cause organ damage with prolonged exposure. Pregnant and breastfeeding women should not enter the processing room or operate PostPro3D/PostPro SF. The client must have an eye wash station and emergency shower available when using this consumable and follow the general lab safety precautions. The consumables may also cause an allergic skin reaction. Do not breathe the mist or vapour.

⚠CAUTION **Chemical Hazard:** Avoid touching parts that have been partially or recently processed, even when wearing nitrile gloves. Ensure that all PostPro3D/PostPro SF. process steps are concluded to the manufacturer's instructions before touching any processed parts with bare hands.

⚠CAUTION **Chemical Hazard:** If an operator gets chemicals in their eye, immediately flush it out with water using the safety eye wash. Consult the MSDS for more information about treating eye exposure.

⚠CAUTION **Chemical Hazard:** If an operator gets chemicals on their skin, immediately rinse with water. Consult the MSDS for more information about treating skin exposure.

⚠CAUTION **Chemical Hazard:** If a processed part is sticky, even after full processing, something may have gone wrong with the processing steps or the part maybe partially processed. Do not handle the part with bare hands and avoid any inhalation of fumes by using an appropriate mask with filter.

⚠DANGER **Chemical Hazard:** Always keep the PostPro SF machine closed when not processing to ensure no fumes are inhaled by operators. Keep waste containers closed all the time

⚠CAUTION **Pinch Hazard:** The lid of the processing chamber is heavy. Close the lid carefully using the handles on the PostPro3D/PostPro SF. to avoid pinching fingers or hands.

⚠CAUTION **Electrical Hazard:** Do not open any door in the body of the device as there is an electric shock risk. The doors are for service entry only by AMT Support team only.

⚠WARNING **Chemical warning:** Do not place processed parts in the mouth or give processed parts to children or to animals.

⚠DANGER **Tipping Hazard:** Always use at least two people to move PostPro SF. Unlock the castor heels at the base of the machine before attempting to move the machine. Lock the wheels once PostPro SF is in its new position.

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2 // SCOPE

This document should be used as a guidance to the steps which should be taken in case of a BlastX or FA326 spill. Although the key steps for containing a spill are covered in this document, it must not be used in place of any legally required site-specific safety control documents.

Furthermore, the document covers product information, spill kit checklists, waste management and recommended containment procedure. Although this guidance can be used in many different situations, not all spills and conditions are the same, therefore, if in doubt, contact AMT Support.

3 // PRODUCT SUMMARY

Identification for the Blast X product and the associated company and CAS - 920-66-1.



Product name	BlastX
Product Number	300500
Brand	Additive Manufacturing Technologies



Product name	FA326
Product Number	700500
Brand	Additive Manufacturing Technologies



Product name	RA326
Product Number	700600
Brand	Additive Manufacturing Technologies

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4 // CONTENTS OF SPILL KIT

A spill kit should be created and stored near all areas in which the BlastX/FA326/RA326 is stored. The exact location depends on the specific site, but it is recommended that there is one near the PostPro3D/PostPro SF machine and any storage rooms. The checklist which follows outlines the items which need to be inside the spill kit. It is recommended that multiple sets of PPE are included and that the kit is regularly replenished to ensure it is always ready to use.

4.1 // SPILL KIT CHECKLIST

- **Laboratory Coat:** Must have long sleeves and be knee length to prevent the spill from getting on clothes.
- **Respirator:** Ideally a full-face respirator however, a half face respirator is acceptable if used in conjunction with a set of safety goggles. The respirator must have a ABEK2-P3 type filter.
- **Safety Goggles:** Fully enclosed goggles, not safety glasses, to be worn when no full-face respirator is available.
- **Nitrile Gloves:** Must always be worn whilst clearing the spill to protect from accidental contact with hands.
- **BlastX / FA326 / RA326 MSDS:** The full printed MSDS for the chemistry to inform operator.
- **Spill Procedure Document:** A copy of this document to be used as guidance during a spill.
- **Chemical Absorbent Pads:** These are inert absorbent pads that should be used to mop up the spill.
- **Chemical Absorbent Powder:** Can be used alongside absorbent pads to quickly absorb the spill.
- **Chemical Absorbent Sock:** The chemical sock is used to both absorb the spill but also isolate the area so it cannot spread.
- **Dustpan & Brush:** Used to sweep up the contaminated waste, NOT for general cleaning. The dustpan and brush MUST NOT be made from a thermoplastic. Suitable alternatives include, natural materials and thermoset plastics, contact AMT Support for more information.
- **Disposal Bags:** To dispose the contaminated materials. This should then be put in the appropriate waste container; double bagging is required.

5 // DISPOSING OF WASTE

Once a chemical spill has been fully dealt with the used materials must be disposed of as Hazardous Waste. Please consult your local legislation for the correct disposal procedure. AMT are unable to recommend disposal procedures for specific areas.

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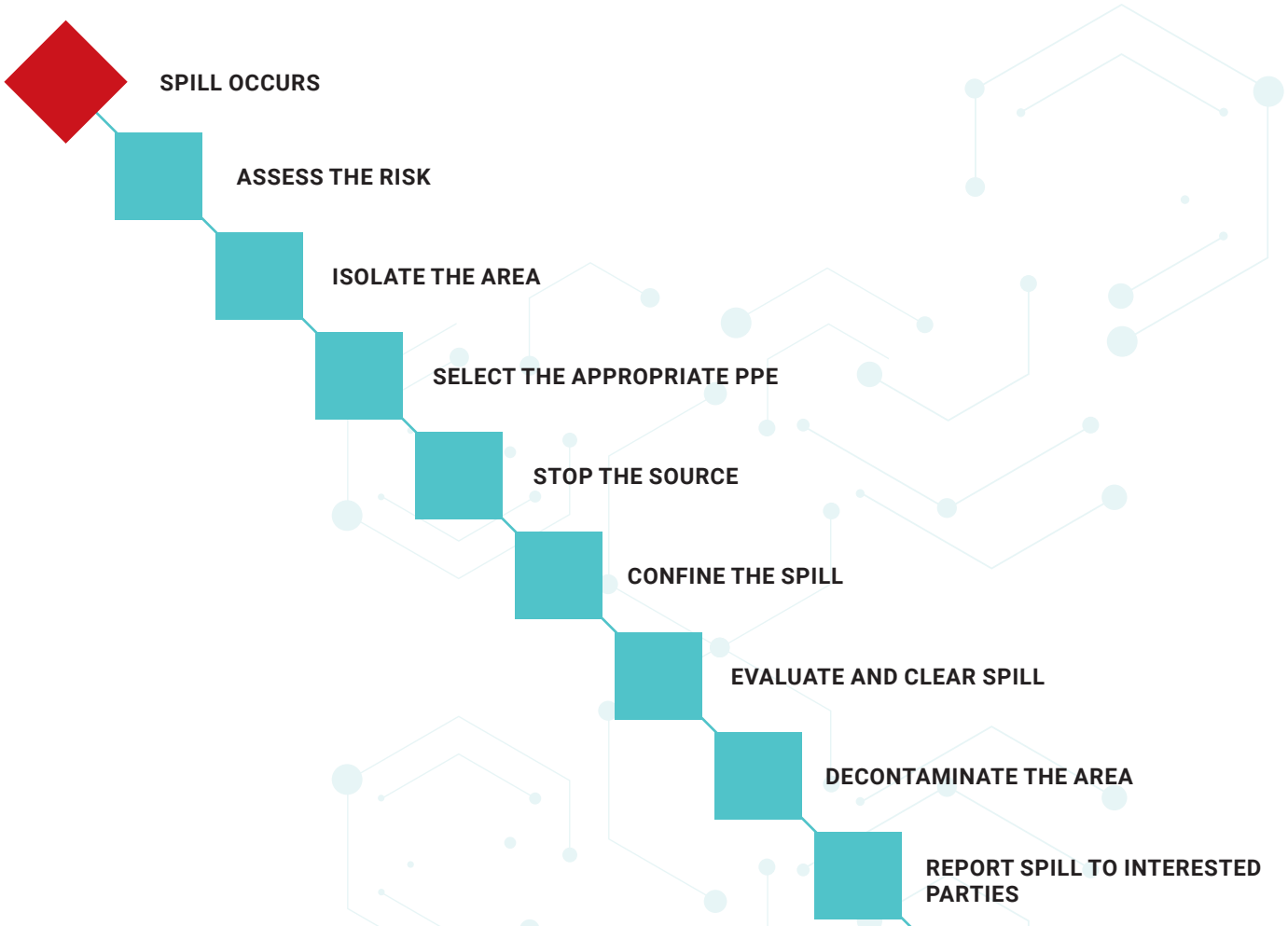
6 // CLEARING A SPILL

The priority when clearing a spill is to stay safe and keep others away from the spill. Ensure that all personnel within the area are aware of the spill and that the area is isolated. The likelihood and severity of a spill can be reduced through good housekeeping and safe working practices.

A flow chart for the spill procedure can be seen as follows:



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6.1 // Assess the Risk
Once a spill has occurred, it is important to assess its magnitude. Can the spill be resolved quickly and easily, or does it need external support? At this stage, it is essential that the MSDS document is referred to regarding all the potential risks.

In addition, it is important to identify the best course of action to limit all risks associated to human health, the environment and property. If at any point during the clean-up procedure an individual becomes unwell, immediately seek medical attention and advise them as to the chemical in the spill (all information can be found on the MSDS).

6.2 // Isolate the Area
The next step is to isolate the area as to limit the people affected. In some cases, this may require areas to be barriered off or closed temporarily until the spill is contained. It is also important at this stage to seek support if needed and not to try to resolve the spill if it is not within one's capabilities.

6.3 // Select the Appropriate PPE
For most spills, the PPE requirements will be the same. All the PPE which should be used when handling a spill has been outlined in section 4.1. It is important that everyone within the area of the spill is wearing the specified PPE.

6.4 // Stop the Source
Depending on the scale of the spill, stopping the source may be as simple as up righting a fallen cannister or retightening a valve. Regardless, it is important that this is done first to prevent the spill from getting larger whilst it is being cleared.

6.5 // Confine the Spill
This can sometimes come before the previous step; however, it is important that the spill is confined to a specific area. To do this, surround the spill with absorbent socks and, in hard-to-reach areas, absorbent pads and powder. By doing this it means that it can be cleared easier, and the affected area is smaller.

One vital thing to note is that all drains and water sources must be isolated from the spill as a priority. If at any point this is not possible, the local authority must be contacted to assess the situation.

6.6 // Evaluate and Clear the Spill
Once the spill is confined and the source of the spill isolated, it is important to reassess the situation to develop a plan of action for clearing the spill. The spill should be cleared carefully as to not spread it but also to ensure all individuals involved are safe. This can be done by working from the outside of the spill inwards and opening a window / turning on an extraction system to improve ventilation in the area.

The waste absorbent material used to absorb all the spill should be carefully placed into hazardous waste bags using the dustpan and brush from the spill kit. To reduce the risk of the bag splitting, make sure to double bag all waste.

6.7 // Decontaminate the Area
Once the spill has been fully cleared the area needs to be decontaminated. There are several methods in which this can be done, however the most effective way is to fully wipe down all surfaces with a rubbing alcohol to remove all traces of the spill and ensure that there is a good source of ventilation as mentioned before.
The area should then be left for around 6 Hours (depending on the amount of ventilation). Make sure that the area is restricted so that other users cannot enter the area.

6.8 // Report Spill to Interested Parties
Depending on the scale of the spill it is important to report it to all relevant governing / safety bodies in the local area. In many cases a spill report or notification may be required, and it is important that this is filed correctly.

Finally, ensure to contact AMT Support if there are any concerns or questions regarding the spill procedure along with ensuring that any spills are reported.

Please note that all the information listed in this document is advisory. It is the responsibility of the customer to ensure all relevant personal protective equipment (PPE) is worn when handling or dealing with the chemical described in this documentation. In addition to this the customer must ensure all relevant health and safety guidelines, laws and regulations are being followed at all times.

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CONTACT INFORMATION

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