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Monsanto Chemical Company

PLASTICS DIVISION

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STANDARD PROCEDURE.

Plant Springfield

SDP 88-637
Number SDP 92-637

D partment Vinyl Chloride Polymerization Sheets 7 Page 1

TITLE ... Standard Operating Procedures For Suspension PVC Polymerization ...

637.0 Emergency Procedures

A summary procedure is described below for Emergency Operation relative to the polymerization area. More complete details are defined in Section 1100 - Safety.

-continued-

Reference

This supersedes instruction issued on
supplements

FORM 126

ISSUED JAN. 4, 1963
STANDARDS DEPARTMENT

BY *A. O. Erickson*

RSV0026021

Monsanto Chemical Company

PLASTICS DIVISION

STANDARD PROCEDURE.

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TITLE Standard Operating Procedures For Suspension PVC Polymerization

637.10 Evacuation Procedure

1. Stop VCM and VAc pumps.
2. Close valves before VCM and VAc charge meters.
3. Put FCW on all kettles.
4. Evacuate
 - a. Assembly Area
 1. Primary - Open area southwest of 85 Bldg., adjacent to gate. Key is at 85 Bldg. foreman's office and South Plot main gate.
 2. Secondary - Roadway east of 81 Bldg. tank farm. Use only if 85 is involved in emergency
 - b. Evacuation Signal
 1. One long blast of evacuation horn means immediate evacuation.
 2. Series of short blasts means evacuate after carrying out emergency procedures.

Reference

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This ^{supplements}

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637.20 Emergency Procedure - Fire

1. Attempt to control and extinguish fire with extinguishers or hoses in area.
2. Instruct nearest by-stander to turn in the alarm. Use fire phone or dial 2771.
3. Follow building Evacuation Procedure:
 - a. PCW on kettles,
 - b. stop VCM pump,
 - c. close valves before meters.
4. Close area fire doors.
5. Remove fuel supply if possible.
6. Do not use water on fires involving materials lighter than water. Impact of stream will scatter the material. No blanketing action since material floats.
7. Foam extinguishers are not effective on material containing enough oxygen to continue to burn. Blanketing effect will not help (i.e. L_2O_2).

Ref re nce

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TITLEStandard Operating Procedures For Suspension PVC Polymerization.....

637.30 Emergency Procedure - Power Failure - Agitator Failure

1. Close VCM and VAc lines open to kettle.
2. Turn FCW on any kettle that was running or being charged at time of failure.
3. Reduce temperature set point on all kettles to minimum settings.
4. Add 1/2 gallon of styrene to each kettle as rapidly as possible. If power failure exceeds 30 minutes, add an additional 1/2 gallon of each kettle. The batch polymerization can be completed after conditions return to normal.
5. Vent each operating kettle to stack for one minute in rotation.
6. When power is restored:
 - a. jog kettle agitator for a second,
 - b. if no pressure build-up after 5 joggings, start agitator.

Refer nce

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STANDARD PROCEDURE

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637.40 Emergency Procedure - Water Failure

1. Close main supply:
 - a. SW corner of 88 1st floor,
 - b. SE corner of 92 warehouse (behind Vredomatic).
2. Open auxiliary supply:
 - a. SW corner of 88, 1st floor,
 - b. NW corner of 92 warehouse (behind screen).
3. When supply is restored:
 - a. Close valves on auxiliary system,
 - b. open valves in main line.
4. Corrective action for kettle polymerizations should be governed by: the batch temperature and batch pressure rise.
 - a. If it is not possible to maintain batch temperature below 70°C and/or batch pressure below 135 psi, add 1/2 gallon of styrene to the batch.
 - b. When water supply is returned to normal and batch temperature and pressure are returned to normal operating levels, maintain the batch at reaction temperature and complete the polymerization.

Reference

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STANDARD PROCEDURE.

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TITLE Standard Operating Procedures For Suspension PVC Polymerization

637.50 Emergency Procedure - Air Failure

1. Close valve from main air supply:
 - a. Near inlet to #2 dryer in 92
 - b. Near #4K just below KF in 88
2. Open valves from 8 Nitrogen cylinders:
 - a. S. W. corner 92 on 1st floor
 - b. East wall of 88 KF on roof
3. Set Nitrogen pressure on 40 psig.
4. When supply is restored;
 - a. close Nitrogen cylinders,
 - b. open main supply.

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637.00 Emergency Procedures - Major VCM Spills

1. Turn on emergency fans.
2. Valve off any section of line or piece of equipment leaking.
3. Shut down VCM pump leading into line that is leaking.
4. Notify foreman.
5. Direct water hose on leak in effort to freeze leak.
6. If leak is from kettle, put FCW on, and drop jacket set point to zero.
7. If leak is expected to persist more than 15 minutes drop jacket set point on all kettles to zero.
8. If vapor testor exceeds 0.5 on 1/1 scale, use "Fail safe" feature to asset jacket. (Cut off air supply behind control panel)
9. Instruct Shift Supt. and guards to stop all traffic in South Plot.
10. Prevent people from entering Building.
11. If reading on vaportester exceeds 0.2 on 1/1 scale instruct shift supt. to stop traffic on Monsanto Avenue.
12. Stop smoking in 88 and remove lighter.
13. Shut down equipment (dryer, centrifuge, etc.).
14. Stop mainteaance work.
15. Evacuate.

R ference A. Torrenzano - 5/24/62

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FORM 128

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BY *A.O. Ericksberg*

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APPROVAL SHEET

TO: Date Approval

NO: SNP 88-638
92-639

DATE: _____

Please check the attached procedure or specification and sign it if it meets with your approval. If you have an suggestions, corrections, or additions please note them on this sheet: DO NOT WRITE ON SPECIFICATION OR PROCEDURE

Then detach one "RETURN TO STANDARDS DEPARTMENT" slip and return it under separate cover.

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APPROVAL SHEET

SDD 88-637
SDD 92-637

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NO: _____

DATE: _____

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*No approval necessary. Being reviewed
to correct number from 638 to 637.
AOE*

*OK to type
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