

217/782-2113

CONSTRUCTION PERMIT - NESHAP -- REVISED

PERMITTEE

BASF Corporation
Attn: David Van Lewen
3938 Porett Drive
Gurnee, Illinois 60031

Application No.: 99100090
Applicant's Designation:
Subject: Surfactant Manufacturing
Date Issued: December 14, 2000
Location: 3938 Porett Drive, Gurnee

I.D. No.: 097035AAQ
Date Received: December 4, 2000

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of one process heater (B4X), twelve storage tanks, a leak detection and repair (LDAR) program, and physical and operational changes to six existing process vessels as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
2. This federally enforceable state construction permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 10 tons/yr for a single hazardous air pollutant (HAPs) and 25 tons/yr for combined HAPs).
3. Plant-wide emissions shall not exceed 9 tons/yr of a single HAP and 22.5 tons/yr for total HAPs.
4. Emissions and operation of the twelve storage tanks shall not exceed the following limits:

<u>Material</u>	<u>Throughput (Tons/Yr)</u>	<u>Total HAP and VOM Emissions (Tons/Yr)</u>
Mineral Oil	1,000	0.1
Parapol 9951	1,000	0.1
Surfactant Product Intermediate	2,000	0.2
Diethyl Sulfate	250	0.05
Glissopal 100	1,000	0.1
Maleic Anhydride	250	1.4
Surfactant Product	2,000	0.2
Trisamine 40	1,000	0.1
Soyadiethylamine	1,000	0.1
Tallowamine Ethoxylate	1,000	0.1

These limits are based on limits requested in the permit application. Compliance shall be determined from a running total of 12 months data.

5. Emissions and operation of the process heater (B4X) shall not exceed the following limits:

<u>Firing Rate</u> (mmBtu/Hr)	<u>NO_x</u>		<u>CO</u>		<u>VOM</u>	
	(Lb/Hr)	(Ton/Yr)	(Lb/Hr)	(Ton/Yr)	(Lb/Hr)	(Ton/Yr)
20.0	2.00	8.76	1.68	7.36	0.11	0.48

These limits are based on standard emission factors (AP-42) and continuous operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

6. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.
7. At all times the Permittee shall, to the extent practicable, maintain and operate the equipment, including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.
8. All equipment in ethylene oxide service and all equipment in propylene oxide service shall be operated in compliance with 40 CFR Part 63, Subpart H, National Emission Standards for Organic HAPs for Equipment Leaks, Section 63.160 through Section 63.182, with the exception of Section 63.164 and Section 63.170.
9. The Permittee shall maintain records of the following items:
 - a. Natural gas usage (scf/mo);
 - b. Material type and usage (gal/mo);
 - c. VOM and HAP content of all materials (lb/gal or wt. %); and
 - d. VOM, single HAP, and total HAPs emissions (tons/mo and tons/yr).
10. This permit is issued based on the fact that the above-specified units are identified in the Permittee's pending application for a CAAPP permit and are certified, by Permittee, to be in compliance with applicable regulations.
11. This permit does not preclude any future permitting review and evaluation nor does it shield the Permittee from any legal action for noncompliance with or circumvention of, applicable regulations.
12. Operation of the equipment being constructed and/or modified is allowed under this permit until final action is taken on the Clean Air Act

Page 3

Permit Program (CAAPP) application for this source, provided that such CAAPP application has been received and been deemed complete by the Illinois EPA. As a result, the Permittee must still update the CAAPP application to include the aforementioned equipment but is not required to submit an application for a state operating permit in the interim.

Please note that this permit is issued for the construction (and operation) of the equipment listed above. The Permittee should update their CAAPP application to include this new equipment by submitting form 505-CAAPP - "Supplement to CAAPP Application" along with all other appropriate information to accomplish this.

It should be noted that this permit has been revised to add Condition 12, which details operation under this construction permit.

If you have any questions on this, please call Jason Schnepf at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JMS:jar

cc: Region 1