
REACH SIEF/컨소시아 동향 Report

– Ethylene Oxide (EC No. 200-849-9) –

2009. 12

1. Ethylene Oxide 개요

☐ 개요

| EC number | CAS number | 물질명 | 사전등록 법인수 |
|-----------|------------|----------------|-----------|
| 200-849-9 | 75-21-8 | Ethylene Oxide | 2,469개 법인 |

☐ Facilitator 및 Lead Registrant 현황

- Facilitator는 및 선도등록자(Lead Registrant)는 BASF SE에서 맡고 있음.

☐ SIEF Code 조사결과

| Substance-Name: [Oxirane] – EINECS N°: [200-849-9] | | | | | |
|--|------------------------------------|---|----------|---------|---------|
| N° of pre-registrants | N° of respondents to questionnaire | N° of respondents per indicated status (according to CEFIC guideline) | | | |
| | | Leading | Involved | Passive | Dormant |
| 2469 | 884 | 3 | 100 | 452 | 329 |



☐ 물질 동질성

- 함량 80% (w/w) 이상

| | |
|---|----------------|
| IUPAC name | Oxirane |
| As a general rule, a substance defined by its composition, in which one main component is present to at least 80% (w/w). | |
| Other names | |
| All other names of the substance can be given, including other chemical names, trade names or abbreviations under which the substance will be marketed in the Community etc. Other names may also include internal company names or names from sector specific inventories, like colour index names, INCI names, etc. This section might also include the IUPAC names in all languages available. | |
| EC number | 200-849-9 |
| EC name | Ethylene oxide |
| The EC number and EC name of the substance shall be given, if available. The EC-number is the official EU registration number for the substance and together with the EC name listed in the EC inventory (e.g. EINECS, ELINCS or NLP). (Current EU naming can be found on ECB website: http://ecb.jrc.it/esis/) | |
| CAS number | 75-21-8 |
| CAS name | Oxirane |
| The CAS-number and the CAS-name of the substance shall be given, if available. As a general rule, the CAS-number related to the EC-number shall be given. If more than one CAS number exists (e.g. deleted CAS numbers or CAS numbers of the same substance used in different legislative systems in order to describe the substance in line with the expectation of these systems), give the other CAS number(s) as related CAS numbers. | |
| Conc. range (%w/w) | > 80 |
| Mol. formula | C2H6O2 |

2. SIEF 진행상황

① SIEF Code, 등록톤수 등에 대한 기본 설문 (2009.4)

| | |
|--|---|
|  <p>SIEF (Substance Information Exchange Forum) Registration - EC No.</p> <p>This questionnaire is unique to a pre-registration number. For multiple pre-registrations, we have sent multiple questionnaires. You may return to this survey using the original link sent to you and modify your answers until April 30, 2009.</p> <p>1. Registrant:</p> <p>Email:</p> <p>Pre-registration number:</p> <p>EC/EINECS number: 200-849-9</p> <p>Substance name: ethyleneoxide</p> <p>Company:</p> <p>2. Please confirm that the information above is correct. (Answer required):</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>3. Please indicate your role in the SIEF. (Answer required, multiple answers possible):</p> <p><input type="checkbox"/> Manufacturer</p> <p><input type="checkbox"/> Importer</p> <p><input type="checkbox"/> Only Representative</p> <p><input type="checkbox"/> Third Party Representative</p> <p><input type="checkbox"/> Data Holder</p> <p><input type="checkbox"/> Others</p> <p>4. Please clarify your intended level of participation in this SIEF. (Answer required):</p> <p><input type="checkbox"/> 1 - Leading: This is a substance of high strategic importance for my company and I have available resource to (co) lead and drive registration to completion.</p> <p><input type="checkbox"/> 2 - Involved: My company is registering and may be actively involved. My company will receive a SIEF progress report and an invitation to comment.</p> <p><input type="checkbox"/> 3 - Passive: My company has the intention to register this substance. My company will receive a SIEF progress report.</p> <p><input type="checkbox"/> 4 - Dormant: My company has no intention to register at the moment or to spend money. My company will receive no communications (besides mandatory data sharing).</p> <p>5. Are you a member of a relevant Consortium?</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> If 'yes' give details:</p> |  <p>Page 2:</p> <p>6. What is the intended registration deadline for this substance?:</p> <p><input type="checkbox"/> 2010</p> <p><input type="checkbox"/> 2013</p> <p><input type="checkbox"/> 2016</p> <p>7. What is your tonnage band?:</p> <p><input type="checkbox"/> > 1000 tons per year</p> <p><input type="checkbox"/> 100 - 1000 tons per year</p> <p><input type="checkbox"/> 10 - 100 tons per year</p> <p><input type="checkbox"/> 1 - 10 tons per year</p> <p><input type="checkbox"/> < 1 ton per year</p> <p>8. Is the substance a strictly controlled intermediate?:</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>9. Is the substance a mono constituent or multi-constituent?:</p> <p><input type="checkbox"/> Mono Constituent</p> <p><input type="checkbox"/> Multi-constituent</p> <p>10. If mono constituent, confirm substance has > 80% purity:</p> <p><input type="checkbox"/> > 80% purity</p> <p><input type="checkbox"/> < 80% purity</p> <p>11. Please indicate your preferred collaboration method within the SIEF - does not guarantee that this will be the chosen method:</p> <p><input type="checkbox"/> SIEFreach (www.SIEFreach.com)</p> <p><input type="checkbox"/> E-mail</p> <p><input type="checkbox"/> Others, please indicate:</p> |
|--|---|


☞ 주로 “REACH Ethylene Oxide & Ethylene Glycols Consortium”의 Homepage(REEC)를 통해 SIEF 진행정보 등을 다음과 같이 제공하고 있음.



REEC
REACH Ethylene Oxide and Ethylene Glycols Consortium

Home

You are here: [Home](#) > [SIEF Registration](#) > Oxirane



Letter 11:

REACH: SIEF MANAGEMENT FOR REGISTRATION OF THE SUBSTANCE: Oxirane
(CAS N°: 75-21-8 / EINECS N°: 200-849-9 and name: Oxirane / Ethylene oxide)

Date: 08/06/2009

Dear Madam, Dear Sir,

In order to proceed with the formation of the Substance Information Exchange Forum (SIEF), we write this letter in the role of the SIEF Formation Facilitator (SFF) to all pre-registrants that have responded to our recent survey as Lead, Involved, Passive or Data Holder in the possession of data which are of relevance to achieve the SIEF's aims as provided for in Art. 29.2 of REACH.

BASF SE has received from your company the following response to the SIEF invitation for substance Oxirane
(CAS N°: 75-21-8 / EINECS N°: 200-849-9 and name: Oxirane / Ethylene oxide):

Important Documents:

[Disclaimer](#)

Important Links:

[ECHA](#)

[CEFIC](#)

② 1차 LoA 비용 발표 및 SIEF Agreement 협약 승인 요청 (09.10.24)

☞ SIEF Agreement 설문

| <p>i) 회사정보 확인 및 해당톤수(LoA비용 확인) 선택</p> <p>REACH - SIEF AGREEMENT of the Consortium REEC</p> <p>In order to start the process of confirming the SIEF Agreement you are requested to fill in this questionnaire.</p> <p>Deadline for submission is November 15, 2009</p> <p>1. Please confirm that the company name (legal entity) and substance are correct</p> <table border="1"> <tr><td>Pre-registration number</td><td></td></tr> <tr><td>UUID</td><td></td></tr> <tr><td>Company Name</td><td></td></tr> <tr><td>Substance Name</td><td>Oxirane (Ethylene oxide, oxirane)</td></tr> <tr><td>CAS Number</td><td>75-21-8</td></tr> <tr><td>EC Number</td><td>200-849-9</td></tr> </table> <p><input type="radio"/> I herewith confirm that the data supplied are correct <input type="radio"/> The data are incorrect (Please contact luis.REACH-spiske@basf.com)</p> <p>2. Please confirm the volume Band for which you plan to register</p> <table border="1"> <tr><td><input type="radio"/> Tier 1 (> 1000 t/a)</td><td>Lump sum €17,800.00 *</td></tr> <tr><td><input type="radio"/> Tier 2 (< 1000 t/a and > 100 t/a)</td><td>Lump sum €16,900.00 *</td></tr> <tr><td><input type="radio"/> Tier 3 (< 100 t/a and > 1t/a)</td><td>Lump sum €14,300.00 *</td></tr> </table> <p>* Net lump sum excludes any applicable taxes.</p> | Pre-registration number | | UUID | | Company Name | | Substance Name | Oxirane (Ethylene oxide, oxirane) | CAS Number | 75-21-8 | EC Number | 200-849-9 | <input type="radio"/> Tier 1 (> 1000 t/a) | Lump sum €17,800.00 * | <input type="radio"/> Tier 2 (< 1000 t/a and > 100 t/a) | Lump sum €16,900.00 * | <input type="radio"/> Tier 3 (< 100 t/a and > 1t/a) | Lump sum €14,300.00 * | <p>ii) Invoice 수령정보 입력</p> <p>3. Please provide invoice details for the fee for participating in the joint submission As per the SIEF Agreement Article IX Paragraph 7, only one company is required to pay the fee if there are various legal entities involved. Therefore, if in your case several legal entities are involved, please provide information on the company that shall be invoiced, otherwise just include your company details.</p> <p><input type="radio"/> Only one Legal Entity <input type="radio"/> Several Legal Entities</p> <table border="1"> <tr><th colspan="2">Invoice Recipient</th></tr> <tr><td>Company Name</td><td></td></tr> <tr><td>Address</td><td>Country: Zip Code: Location: Street: </td></tr> <tr><td>Contact Person</td><td></td></tr> <tr><td>E-mail</td><td></td></tr> </table> <p>A separate E-Mail with additional invoice details will be sent to the specified above contact person.</p> | Invoice Recipient | | Company Name | | Address | Country: Zip Code: Location: Street: | Contact Person | | E-mail | | <p>iii) SIEF Agreement 동의여부 선택</p> <p>4. Please indicate below if you agree with the SIEF Agreement</p> <table border="1"> <tr><td><input type="radio"/> Agree</td><td>My company agrees with the SIEF Agreement</td></tr> <tr><td><input type="radio"/> No interest</td><td>My company disagrees with the SIEF Agreement</td></tr> </table> | <input type="radio"/> Agree | My company agrees with the SIEF Agreement | <input type="radio"/> No interest | My company disagrees with the SIEF Agreement |
|---|---|--|------|--|--------------|--|----------------|-----------------------------------|------------|---------|-----------|-----------|---|-----------------------|---|-----------------------|---|-----------------------|---|-------------------|--|--------------|--|---------|---|----------------|--|--------|--|--|-----------------------------|---|-----------------------------------|--|
| Pre-registration number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UUID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Substance Name | Oxirane (Ethylene oxide, oxirane) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAS Number | 75-21-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EC Number | 200-849-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="radio"/> Tier 1 (> 1000 t/a) | Lump sum €17,800.00 * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="radio"/> Tier 2 (< 1000 t/a and > 100 t/a) | Lump sum €16,900.00 * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="radio"/> Tier 3 (< 100 t/a and > 1t/a) | Lump sum €14,300.00 * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Invoice Recipient | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address | Country: Zip Code: Location: Street: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Person | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E-mail | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="radio"/> Agree | My company agrees with the SIEF Agreement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="radio"/> No interest | My company disagrees with the SIEF Agreement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

※ SIEF Agreement는 대부분 CEFIC의 표준 SIEF Agreement 내용을 준용하였음 (별첨 파일 참조)

1차 LoA 제안 비용

- 1,000 t 이상 : 17,800€ (약 3,000만원)
- 100~1,000 t : 16,900€ (약 2,900만원)
- 100 t 미만 : 14,300€ (약 2,400만원)

※ Tax 등은 별도, 1€/1,700원 기준

LoA 주요 사항

- 법인(Legal Entity)별이 아닌, 회사(Company)별로 가입하게 되어 있음.
- 위 LoA비용에는 CSR 제공(워드파일)이 포함되어 있으며, 각 기업상황에 맞게 CSR 수정사용 가능함.
- 분석 Data (UV, IR, NMR)도 제공할 예정임.

③ 1차 SIEF Agreement 동의 업체 현황 발표 (09.11.20)

- 총 117개의 답변을 받았으며, 그중에 약 **30개 기업**이 SIEF Agreement를 승인하였음.
- 답변율이 저조하여 11월 30일까지 SIEF Agreement 승인 설문기간을 연장함.

④ 2차 SIEF Agreement 동의 업체 현황 및 LoA 수정비용 발표 (09.12.4)

- 11월말까지 총 225개의 답변을 받았으며, 그중에 약 **75개 기업**이 SIEF Agreement를 승인하였음.
- 참가기업이 많아져서 LoA비용을 다음과 같이 하향 조정함.

| 수정된 LoA 비용 |
|--|
| <ul style="list-style-type: none">○ 1,000 t 이상 : 10,000€ (약 1,700만원)○ 100~1,000 t : 8,000€ (약 1,400만원)○ 100 t 미만 : 6,000€ (약 1,000만원) <p>※ Tax 등은 별도, 1€/1,700원 기준</p> <p>☞ 최초 제안 비용대비 약 40~60% 이상 하향 조정됨.</p> |

- 2009.12월까지 SIEF Agreement를 승인하는 기업에게는 2010.1월에 인보이스가 청구되며, 그 이후인 2010년 1사분기에 승인하는 기업에 대해서는 2010.4월에 인보이스가 청구될 예정임.

3. 컨소시아 현황

- REACH Ethylene Oxide & Ethylene Glycols Consortium에서는 현재 5개의 물질에 대해 REACH 등록을 준비하고 있으며, 현재까지 24개의 회원사가 가입되어 있음.
- 컨소시아에서는 5개 물질별로 업무 소요량을 고려하여 위 LoA 비용을 결정하였음.

※ 별첨 1. 노출시나리오 요약 (안)

2. SIEF Agreement (별도 파일 참조)

- | |
|--|
| <p>□ 본 Report는 지식경제부 지원하에 국제환경규제기업지원센터와 공동으로 작성된 자료이며, 본 자료에 대한 문의사항이 있으신 경우에는 다음 연락처로 연락주시기 바랍니다.</p> <p>- Email : sunny@ktreurope.de - Tel : + 49 6196 887 170</p> |
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※ 별첨 1. 노출시나리오 요약 (안)

| Number (ES) | Short Description of Exposure Scenario - DRAFT - Substance: Oxirane Cas-Nr.: 75-21-8 Oxirane EC-Nr.: 200-849-9 | | Life cycle stage covered by ES | | | | | | Product Category (PC) not applicable | Sector of use (SU) | Process category (PROC) | Article Category (AC) not applicable | Environmental release category (ERC) |
|-------------|---|---|--------------------------------|-------------|------------|--------------|----------|--------------|---|--------------------|-------------------------|---|--|
| | | | Manufacture | Formulation | End use | | | Service Life | | | | | |
| | | | | | Industrial | Professional | Consumer | | | | | | |
| 1 | 1. Manufacture of substance 2. Distribution of substance | Use of the substance in high integrity contained system where little potential exists for exposures, e.g. any sampling via | X | | X | | | | | 8, 9 | PROC1 | | ERC1 |
| | | Use in closed, continuous process with occasional controlled exposure (e.g. sampling) Industrial Setting | X | | X | | | | | 8, 9 | PROC2 | | |
| | | Use in closed batch process (synthesis or formulation), Industrial setting | X | | X | | | | | 8, 9 | PROC3 | | |
| | | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Industrial or non-industrial setting | X | | X | | | | | 8, 9 | PROC 8b | | |
| | | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) | X | | X | | | | | 8, 10 | PROC 9 | | |
| 2 | Polymer production | Use of the substance in high integrity contained system where little potential exists for exposures, e.g. any sampling via | | | X | | | | | 8, 9 | PROC1 | | ERC 6c |
| | | Use in closed, continuous process with occasional controlled exposure (e.g. sampling) Industrial Setting | | | X | | | | | 8, 9 | PROC2 | | |
| | | Use in closed batch process (synthesis or formulation), Industrial setting | | | X | | | | | 8, 9 | PROC3 | | |
| | | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Industrial or non-industrial setting | | | X | | | | | 8, 9 | PROC 8b | | |
| | | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) | | | X | | | | | 8, 10 | PROC 9 | | |
| 3 | Use as Intermediate | Use of the substance in high integrity contained system where little potential exists for exposures, e.g. any sampling via | | | X | | | | | 8, 9 | PROC1 | | ERC 6a |
| | | Use in closed, continuous process with occasional controlled exposure (e.g. sampling) Industrial Setting | | | X | | | | | 8, 9 | PROC2 | | |
| | | Use in closed batch process (synthesis or formulation), Industrial setting | | | X | | | | | 8, 9 | PROC3 | | |
| | | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Industrial or non-industrial setting | | | X | | | | | 8, 9 | PROC 8b | | |
| | | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) | | | X | | | | | 8, 10 | PROC 9 | | |
| 4 | Use as laboratory agent | Use as laboratory reagent. Non industrial setting, Use of substances at small scale laboratory (< 1 l or 1 kg) | | | | X | | | | 8, 9 | PROC15 | | ERC1 |