

ブチル 2,3-エポキシプロピル エーテルのラット
を用いた吸入による 13 週間毒性試験報告書

試験番号 : 0415

TABLES

TABLES

TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

TABLE 3 FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

| Week-Day on Study | 0ppm | | 12.5ppm | | 25ppm | | 50ppm | | 100ppm | | 200ppm | | | | | | |
|----------------------|----------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------------|-----------------------|---------------------------|----------|-----|-------|
| | Av.Wt. <10> | No.of Surviv. 10/10 | Av.Wt. <10> | % of cont. <10> | No.of Surviv. 10/10 | Av.Wt. <10> | % of cont. <10> | No.of Surviv. 10/10 | Av.Wt. <10> | % of cont. <10> | No.of Surviv. 10/10 | Av.Wt. <10> | % of cont. <10> | No.of Surviv. 10/10 | | | |
| 0-0 | 121 (10) | 10/10 | 121 (10) | 100 | 10/10 | 121 (10) | 100 | 10/10 | 121 (10) | 100 | 10/10 | 121 (10) | 100 | 10/10 | 121 (10) | 100 | 10/10 |
| 1-7 | 153 (10) | 10/10 | 149 (10) | 97 | 10/10 | 150 (10) | 98 | 10/10 | 149 (10) | 97 | 10/10 | 145 (10) | 95 | 10/10 | 134 (10) | 88 | 10/10 |
| 2-7 | 176 (10) | 10/10 | 169 (10) | 96 | 10/10 | 177 (10) | 101 | 10/10 | 174 (10) | 99 | 10/10 | 170 (10) | 97 | 10/10 | 146 (10) | 83 | 10/10 |
| 3-7 | 200 (10) | 10/10 | 188 (10) | 94 | 10/10 | 197 (10) | 99 | 10/10 | 195 (10) | 98 | 10/10 | 192 (10) | 96 | 10/10 | 158 (10) | 79 | 10/10 |
| 4-7 | 220 (10) | 10/10 | 203 (10) | 92 | 10/10 | 216 (10) | 98 | 10/10 | 211 (10) | 96 | 10/10 | 209 (10) | 95 | 10/10 | 175 (10) | 80 | 10/10 |
| 5-7 | 235 (10) | 10/10 | 218 (10) | 93 | 10/10 | 230 (10) | 98 | 10/10 | 222 (10) | 94 | 10/10 | 220 (10) | 94 | 10/10 | 175 (10) | 74 | 10/10 |
| 6-7 | 252 (10) | 10/10 | 231 (10) | 92 | 10/10 | 242 (10) | 96 | 10/10 | 235 (10) | 93 | 10/10 | 229 (10) | 91 | 10/10 | 182 (10) | 72 | 10/10 |
| 7-7 | 261 (10) | 10/10 | 242 (10) | 93 | 10/10 | 255 (10) | 98 | 10/10 | 245 (10) | 94 | 10/10 | 238 (10) | 91 | 10/10 | 183 (10) | 70 | 10/10 |
| 8-7 | 271 (10) | 10/10 | 254 (10) | 94 | 10/10 | 264 (10) | 97 | 10/10 | 254 (10) | 94 | 10/10 | 247 (10) | 91 | 10/10 | 192 (10) | 71 | 10/10 |
| 9-7 | 279 (10) | 10/10 | 261 (10) | 94 | 10/10 | 267 (10) | 96 | 10/10 | 258 (10) | 92 | 10/10 | 242 (10) | 87 | 10/10 | 190 (10) | 68 | 10/10 |
| 10-7 | 289 (10) | 10/10 | 268 (10) | 93 | 10/10 | 272 (10) | 94 | 10/10 | 265 (10) | 92 | 10/10 | 247 (10) | 85 | 10/10 | 193 (10) | 67 | 10/10 |
| 11-7 | 293 (10) | 10/10 | 275 (10) | 94 | 10/10 | 279 (10) | 95 | 10/10 | 272 (10) | 93 | 10/10 | 254 (10) | 87 | 10/10 | 197 (10) | 67 | 10/10 |
| 12-7 | 298 (10) | 10/10 | 278 (10) | 93 | 10/10 | 284 (10) | 95 | 10/10 | 278 (10) | 93 | 10/10 | 254 (10) | 85 | 10/10 | 196 (10) | 66 | 10/10 |
| 13-7 | 305 (10) | 10/10 | 285 (10) | 93 | 10/10 | 289 (10) | 95 | 10/10 | 284 (10) | 93 | 10/10 | 257 (10) | 84 | 10/10 | 199 (10) | 65 | 10/10 |

< > : No.of effective animals, () : No.of measured animals Av.Wt. : g

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

| Week-Day on Study | 0ppm | | 12.5ppm | | 25ppm | | 50ppm | | 100ppm | | 200ppm | | | | | | |
|----------------------|----------|------------------|----------|---------------|------------------|----------|---------------|------------------|----------|---------------|------------------|----------|---------------|------------------|----------|-----|-------|
| | Av.Wt. | No.of Surviv. | Av.Wt. | % of cont. | No.of Surviv. | Av.Wt. | % of cont. | No.of Surviv. | Av.Wt. | % of cont. | No.of Surviv. | Av.Wt. | % of cont. | No.of Surviv. | | | |
| | <10> | | <10> | | <10> | <10> | | <10> | <10> | | <10> | <10> | | <10> | | | |
| 0-0 | 95 (10) | 10/10 | 95 (10) | 100 | 10/10 | 95 (10) | 100 | 10/10 | 95 (10) | 100 | 10/10 | 95 (10) | 100 | 10/10 | 95 (10) | 100 | 10/10 |
| 1-7 | 111 (10) | 10/10 | 109 (10) | 98 | 10/10 | 110 (10) | 99 | 10/10 | 111 (10) | 100 | 10/10 | 107 (10) | 96 | 10/10 | 103 (10) | 93 | 10/10 |
| 2-7 | 120 (10) | 10/10 | 119 (10) | 99 | 10/10 | 121 (10) | 101 | 10/10 | 122 (10) | 102 | 10/10 | 117 (10) | 98 | 10/10 | 108 (10) | 90 | 10/10 |
| 3-7 | 130 (10) | 10/10 | 127 (10) | 98 | 10/10 | 128 (10) | 98 | 10/10 | 128 (10) | 98 | 10/10 | 125 (10) | 96 | 10/10 | 114 (10) | 88 | 10/10 |
| 4-7 | 137 (10) | 10/10 | 133 (10) | 97 | 10/10 | 135 (10) | 99 | 10/10 | 136 (10) | 99 | 10/10 | 133 (10) | 97 | 10/10 | 123 (10) | 90 | 10/10 |
| 5-7 | 143 (10) | 10/10 | 140 (10) | 98 | 10/10 | 140 (10) | 98 | 10/10 | 139 (10) | 97 | 10/10 | 137 (10) | 96 | 10/10 | 122 (10) | 85 | 10/10 |
| 6-7 | 149 (10) | 10/10 | 145 (10) | 97 | 10/10 | 143 (10) | 96 | 10/10 | 145 (10) | 97 | 10/10 | 142 (10) | 95 | 10/10 | 125 (10) | 84 | 10/10 |
| 7-7 | 152 (10) | 10/10 | 149 (10) | 98 | 10/10 | 148 (10) | 97 | 10/10 | 147 (10) | 97 | 10/10 | 145 (10) | 95 | 10/10 | 126 (10) | 83 | 10/10 |
| 8-7 | 155 (10) | 10/10 | 152 (10) | 98 | 10/10 | 150 (10) | 97 | 10/10 | 150 (10) | 97 | 10/10 | 149 (10) | 96 | 10/10 | 132 (10) | 85 | 10/10 |
| 9-7 | 160 (10) | 10/10 | 155 (10) | 97 | 10/10 | 153 (10) | 96 | 10/10 | 152 (10) | 95 | 10/10 | 149 (10) | 93 | 10/10 | 130 (10) | 81 | 10/10 |
| 10-7 | 162 (10) | 10/10 | 159 (10) | 98 | 10/10 | 156 (10) | 96 | 10/10 | 156 (10) | 96 | 10/10 | 152 (10) | 94 | 10/10 | 133 (10) | 82 | 10/10 |
| 11-7 | 164 (10) | 10/10 | 162 (10) | 99 | 10/10 | 159 (10) | 97 | 10/10 | 160 (10) | 98 | 10/10 | 153 (10) | 93 | 10/10 | 137 (10) | 84 | 10/10 |
| 12-7 | 164 (10) | 10/10 | 162 (10) | 99 | 10/10 | 160 (10) | 98 | 10/10 | 163 (10) | 99 | 10/10 | 155 (10) | 95 | 10/10 | 136 (10) | 83 | 10/10 |
| 13-7 | 168 (10) | 10/10 | 164 (10) | 98 | 10/10 | 163 (10) | 97 | 10/10 | 165 (10) | 98 | 10/10 | 156 (10) | 93 | 10/10 | 139 (10) | 83 | 10/10 |

< > : No.of effective animals, () : No.of measured animals Av.Wt. : g

TABLE 3

FOOD CONSUMPTION CHANGES OF MALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

| Week-Day on Study | 0ppm | | 12.5ppm | | 25ppm | | 50ppm | | 100ppm | | 200ppm | | | | | | |
|----------------------|-----------|------------------|-----------|---------------|------------------|-----------|---------------|------------------|-----------|---------------|------------------|-----------|---------------|------------------|-----------|----|-------|
| | Av.FC. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | | | |
| | <10> | | <10> | | | <10> | | | <10> | | | <10> | | | | | |
| 1-7 | 14.5 (10) | 10/10 | 13.9 (10) | 96 | 10/10 | 14.0 (10) | 97 | 10/10 | 13.6 (10) | 94 | 10/10 | 12.8 (10) | 88 | 10/10 | 10.8 (10) | 74 | 10/10 |
| 2-7 | 15.5 (10) | 10/10 | 14.6 (10) | 94 | 10/10 | 14.8 (10) | 95 | 10/10 | 14.4 (10) | 93 | 10/10 | 13.8 (10) | 89 | 10/10 | 10.8 (10) | 70 | 10/10 |
| 3-7 | 16.0 (10) | 10/10 | 14.5 (10) | 91 | 10/10 | 15.8 (10) | 99 | 10/10 | 15.3 (10) | 96 | 10/10 | 15.2 (10) | 95 | 10/10 | 11.4 (10) | 71 | 10/10 |
| 4-7 | 16.6 (10) | 10/10 | 14.9 (10) | 90 | 10/10 | 15.6 (10) | 94 | 10/10 | 15.5 (10) | 93 | 10/10 | 15.0 (10) | 90 | 10/10 | 11.9 (10) | 72 | 10/10 |
| 5-7 | 16.3 (10) | 10/10 | 15.1 (10) | 93 | 10/10 | 15.3 (10) | 94 | 10/10 | 15.0 (10) | 92 | 10/10 | 14.6 (10) | 90 | 10/10 | 11.1 (10) | 68 | 10/10 |
| 6-7 | 16.3 (10) | 10/10 | 14.8 (10) | 91 | 10/10 | 15.1 (10) | 93 | 10/10 | 15.2 (10) | 93 | 10/10 | 14.1 (10) | 87 | 10/10 | 11.2 (10) | 69 | 10/10 |
| 7-7 | 16.5 (10) | 10/10 | 14.9 (10) | 90 | 10/10 | 15.5 (10) | 94 | 10/10 | 15.2 (10) | 92 | 10/10 | 14.3 (10) | 87 | 10/10 | 11.2 (10) | 68 | 10/10 |
| 8-7 | 16.3 (10) | 10/10 | 14.7 (10) | 90 | 10/10 | 15.6 (10) | 96 | 10/10 | 15.3 (10) | 94 | 10/10 | 14.5 (10) | 89 | 10/10 | 12.0 (10) | 74 | 10/10 |
| 9-7 | 16.0 (10) | 10/10 | 14.7 (10) | 92 | 10/10 | 16.0 (10) | 100 | 10/10 | 15.3 (10) | 96 | 10/10 | 13.9 (10) | 87 | 10/10 | 11.6 (10) | 73 | 10/10 |
| 10-7 | 15.3 (10) | 10/10 | 14.7 (10) | 96 | 10/10 | 14.3 (10) | 93 | 10/10 | 14.2 (10) | 93 | 10/10 | 13.4 (10) | 88 | 10/10 | 11.2 (10) | 73 | 10/10 |
| 11-7 | 15.5 (10) | 10/10 | 14.8 (10) | 95 | 10/10 | 14.5 (10) | 94 | 10/10 | 13.9 (10) | 90 | 10/10 | 13.7 (10) | 88 | 10/10 | 12.1 (10) | 78 | 10/10 |
| 12-7 | 15.8 (10) | 10/10 | 14.0 (10) | 89 | 10/10 | 14.2 (10) | 90 | 10/10 | 14.2 (10) | 90 | 10/10 | 12.9 (10) | 82 | 10/10 | 11.1 (10) | 70 | 10/10 |
| 13-7 | 15.7 (10) | 10/10 | 14.2 (10) | 90 | 10/10 | 14.3 (10) | 91 | 10/10 | 14.4 (10) | 92 | 10/10 | 13.2 (10) | 84 | 10/10 | 11.4 (10) | 73 | 10/10 |

< > : No.of effective animals, () : No.of measured animals Av.FC. : g

TABLE 4

FOOD CONSUMPTION CHANGES OF FEMALE RATS IN THE 13-WEEK INHALATION STUDY OF BUTYL 2,3-EPOXYPROPYL ETHER

| Week-Day on Study | 0ppm | | 12.5ppm | | 25ppm | | 50ppm | | 100ppm | | 200ppm | | | | | | |
|----------------------|-----------|------------------|-----------|---------------|------------------|-----------|---------------|------------------|-----------|---------------|------------------|-----------|---------------|------------------|----------|----|-------|
| | Av.FC. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | Av.FC. | % of cont. | No.of Surviv. | | | |
| | <10> | | <10> | | | <10> | | | <10> | | | <10> | | | | | |
| 1-7 | 10.8 (10) | 10/10 | 10.5 (10) | 97 | 10/10 | 10.9 (10) | 101 | 10/10 | 10.9 (10) | 101 | 10/10 | 9.9 (10) | 92 | 10/10 | 8.9 (10) | 82 | 10/10 |
| 2-7 | 11.0 (10) | 10/10 | 10.6 (10) | 96 | 10/10 | 11.1 (10) | 101 | 10/10 | 10.8 (10) | 98 | 10/10 | 10.2 (10) | 93 | 10/10 | 8.6 (10) | 78 | 10/10 |
| 3-7 | 11.3 (10) | 10/10 | 11.1 (10) | 98 | 10/10 | 11.4 (10) | 101 | 10/10 | 11.3 (10) | 100 | 10/10 | 10.8 (10) | 96 | 10/10 | 9.1 (10) | 81 | 10/10 |
| 4-7 | 11.4 (10) | 10/10 | 10.8 (10) | 95 | 10/10 | 11.6 (10) | 102 | 10/10 | 11.2 (10) | 98 | 10/10 | 11.3 (10) | 99 | 10/10 | 9.4 (10) | 82 | 10/10 |
| 5-7 | 11.2 (10) | 10/10 | 11.0 (10) | 98 | 10/10 | 11.1 (10) | 99 | 10/10 | 10.5 (10) | 94 | 10/10 | 10.5 (10) | 94 | 10/10 | 8.8 (10) | 79 | 10/10 |
| 6-7 | 11.3 (10) | 10/10 | 11.2 (10) | 99 | 10/10 | 10.6 (10) | 94 | 10/10 | 10.8 (10) | 96 | 10/10 | 10.5 (10) | 93 | 10/10 | 8.6 (10) | 76 | 10/10 |
| 7-7 | 11.1 (10) | 10/10 | 10.6 (10) | 95 | 10/10 | 10.7 (10) | 96 | 10/10 | 10.4 (10) | 94 | 10/10 | 10.4 (10) | 94 | 10/10 | 8.7 (10) | 78 | 10/10 |
| 8-7 | 10.7 (10) | 10/10 | 10.2 (10) | 95 | 10/10 | 10.0 (10) | 93 | 10/10 | 9.9 (10) | 93 | 10/10 | 10.1 (10) | 94 | 10/10 | 9.0 (10) | 84 | 10/10 |
| 9-7 | 10.7 (10) | 10/10 | 10.6 (10) | 99 | 10/10 | 10.3 (10) | 96 | 10/10 | 10.2 (10) | 95 | 10/10 | 9.6 (10) | 90 | 10/10 | 8.8 (10) | 82 | 10/10 |
| 10-7 | 10.7 (10) | 10/10 | 10.4 (10) | 97 | 10/10 | 9.8 (10) | 92 | 10/10 | 9.9 (10) | 93 | 10/10 | 9.4 (10) | 88 | 10/10 | 8.2 (10) | 77 | 10/10 |
| 11-7 | 10.6 (10) | 10/10 | 10.6 (10) | 100 | 10/10 | 9.8 (10) | 92 | 10/10 | 10.1 (10) | 95 | 10/10 | 10.1 (10) | 95 | 10/10 | 9.0 (10) | 85 | 10/10 |
| 12-7 | 10.4 (10) | 10/10 | 9.5 (10) | 91 | 10/10 | 9.8 (10) | 94 | 10/10 | 10.3 (10) | 99 | 10/10 | 9.5 (10) | 91 | 10/10 | 8.4 (10) | 81 | 10/10 |
| 13-7 | 10.8 (10) | 10/10 | 10.0 (10) | 93 | 10/10 | 10.1 (10) | 94 | 10/10 | 10.1 (10) | 94 | 10/10 | 9.6 (10) | 89 | 10/10 | 8.7 (10) | 81 | 10/10 |

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