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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Agency for Toxic Substances and Disease Registry

[30Day-16-16PJ]

Agency Forms Undergoing Paperwork Reduction Act Review

The Agency for Toxic Substances and Disease Registry (ATSDR) has submitted the following information collection request to the Office of Management and Budget (OMB) for review and approval in accordance with the Paperwork Reduction Act of 1995. The notice for the proposed information collection is published to obtain comments from the public and affected agencies.

Written comments and suggestions from the public and affected agencies concerning the proposed collection of information are encouraged. Your comments should address any of the following: (a) Evaluate whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility; (b) Evaluate the accuracy of the agencies estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used; (c) Enhance the quality, utility, and clarity of the information to be collected; (d) Minimize the burden of the collection of information on those who are to respond, including through the

use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses; and (e) Assess information collection costs.

To request additional information on the proposed project or to obtain a copy of the information collection plan and instruments, call (404) 639-7570 or send an email to [omb@cdc.gov](mailto:omb@cdc.gov). Direct written comments and/or suggestions regarding the items contained in this notice to the Attention: CDC Desk Officer, Office of Management and Budget, Washington, DC 20503 or by fax to (202) 395-5806. Written comments should be received within 30 days of this notice.

### **Proposed Project**

**Collections Related to Synthetic Turf Fields with Crumb Rubber Infill - New - Agency for Toxic Substances and Disease Registry (ATSDR).**

### **Background and Brief Description**

Currently in the United States, there are more than 12,000 synthetic turf fields in use. While the Synthetic Turf Council has set guidelines for the content of crumb rubber used as infill in synthetic turf fields, manufacturing processes result in

differences among types of crumb rubber. Additionally, the chemical composition may vary highly between different processes and source materials and may vary even within granules from the same origin.

Due to limited information, the Agency for Toxic Substances and Disease Registry (ATSDR) and the United States Environmental Protection Agency (US EPA) propose to conduct a research study of the chemical composition and use of crumb rubber infill in synthetic turf (Activity 1) and the potential for human exposure to environmental constituents that may result from contact with crumb rubber infill (Activity 2).

The agencies undertook outreach and engagement efforts among stakeholders, including but not limited to industry representatives, non-governmental organizations, and state and local partners. These efforts were used to inform the design of the proposed research study. The outreach and engagement efforts allowed us to better understand the manufacturing process for synthetic turf and crumb rubber infill. It also allowed us to obtain first-hand perspectives on activities conducted on synthetic turf leading to potential human exposures. Additionally, outreach efforts involved discussions and coordination with state partners to identify their current and future research studies on synthetic turf.

Activity 1, subtitled "Tire Crumb Rubber Collection and Characterization" will characterize the chemical constituents found in native crumb rubber material from recycling/crumb rubber manufacturing facilities and in crumb rubber material in use for at least 2 years at facilities with active synthetic turf fields. Chemical analyses will include, but are not limited to, semi-volatile organic compounds (SVOC), metal content, and measurements of volatile organic compounds (VOC) and SVOC emission levels. Microbial content will be assessed for crumb rubber collected from synthetic turf fields.

We aim to enroll a total of nine tire recycling/crumb rubber manufacturing facilities and a total of 40 synthetic turf field facilities (ten in each of the four US census regions). Recycling/crumb rubber manufacturing facilities will be asked to allow collection of native crumb rubber material. For the synthetic turf field facilities, knowledgeable representatives will answer a questionnaire focusing on activity use patterns, field maintenance (e.g., redistribution of crumb rubber material), and other procedures and facility characteristics potentially affecting exposure to any chemicals of potential concern. Also, these facilities will be asked to allow collection of field samples from their synthetic turf fields with crumb rubber infill.

Activity 2, subtitled "Facility User Exposure Characterization" will assess users' physical activities conducted on synthetic turf fields at the same facilities enrolled in Activity 1. This information collection will characterize potential human exposure scenarios, including the nature and duration of exposures. The respondents will include persons who use synthetic turf with crumb rubber infill (e.g., facility users) and who routinely perform activities that would result in a high level of contact to crumb rubber. This will allow for evaluation of potential high-end exposures to constituents in synthetic turf among this group of users.

Approximately 60 respondents will be administered a detailed questionnaire on activity patterns on synthetic turf with crumb rubber infill. On a sub-set of 45 respondents, we will conduct an exposure measurement sub-study. The sub-study will include personal air monitoring, dermal wipe sampling, and biological specimen collection (blood and urine). It is likely that some of the collection items will not be analyzed in the current project time frame but will be archived for future analysis. A subset of 24 of these 45 respondents will be asked to participate in a videography session of a sports or training activity to further characterize different exposure scenarios. The videography sessions will incur no additional respondent burden, because

sessions will take place at the same time as the exposure measurement sub-study.

The burden hours for Activity 1 is 161 hours among up to 80 facilities. The burden hours for Activity 2 is 172 hours among up to 75 facility users. The total estimated annual time burden requested for these two research activities equals 333 hours. There is no cost to the respondents other than their time in the study.

Estimated Annualized Burden Hours

**Activity 1: Tire Crumb Rubber Collection and Characterization**

| Type of Respondents                                  | Form Name                         | No. of Respondents | No. of Responses per Respondent | Avg. Burden per Response (in hrs.) |
|--|-----------------------------------|--------------------|---------------------------------|------------------------------------|
| Tire Recycling/Crumb Rubber Manufacturing Facilities | Invitation Telephone Script       | 10                 | 1                               | 5/60                               |
|  | Facility Sampling Collection Form | 9                  | 1                               | 90/60                              |
| Synthetic Turf Field Facilities                      | Eligibility Screening Script      | 70                 | 1                               | 5/60                               |
|  | Owner Manager                     | 40                 | 1                               | 30/60                              |

|  |                                |    |   |   |
|--|--------------------------------|----|---|---|
|  | Questionnaire                  |    |   |   |
|  | Field Sampling Collection Form | 40 | 1 | 3 |

### Activity 2: Facility User Exposure Characterization

| Type of Respondents   | Form Name                                    | No. of Respondents | No. of Responses per Respondent | Avg. Burden per Response (in hrs.) |
|---|--|--------------------|---------------------------------|------------------------------------|
| Adult/<br>Adolescent<br>Facility<br>Users                       | Eligibility Screening Script                 | 36                 | 1                               | 5/60                               |
|   | Adult and Adolescent Questionnaire           | 36                 | 1                               | 30/60                              |
|   | Exposure Measurement Form                    | 27                 | 1                               | 3                                  |
|   | Phlebotomist Safety Exclusion Questions Form | 27                 | 1                               | 2/60                               |
| Parents/<br>Guardians<br>of<br>Youth/Child<br>Facility<br>Users | Eligibility Screening Script                 | 24                 | 1                               | 5/60                               |
|   | Youth and Child Questionnaire                | 24                 | 1                               | 30/60                              |
|   | Phlebotomist Safety Exclusion Questions Form | 18                 | 1                               | 2/60                               |
| Youth/Child   | Exposure                                     | 18                 | 1                               | 3                                  |

|                   |                     |  |  |  |
|-------------------|---------------------|--|--|--|
| Facility<br>Users | Measurement<br>Form |  |  |  |
|-------------------|---------------------|--|--|--|

DATE:

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Centers for Disease Control and Prevention