



Collins Aerospace

A United Technologies Company

SAFE USE INSTRUCTION

Substance: tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate

CAS Number: 220689-12-3

This product is an article, without intended release of a chemical substance, under the REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). This safe use instruction satisfies the REACH Article 33 Duty to communicate information on substances in articles.

1. USE/EXPOSURE SCENARIOS

USE	Stable under normal use; no expected hazardous emissions. An exposure evaluation is recommended to define appropriate engineering and administrative controls.
Toxicological Information	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) and Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) in accordance with REACH.
Assembly / Disassembly	These activities may cause some very minor transfer of residue onto unprotected skin. It is recommended that Personal Protective Equipment (PPE) be used when handling, assembling/disassembling articles.
Mechanical Removal	Mechanical removal such as grinding, buffing or media blasting techniques may generate hazardous particulates that must be disposed of in accordance with local regulations. Any mechanical removal should be done with proper ventilation and the appropriate PPE in place.
Stripping: Chemical Removal	Stripping via chemical techniques may generate hazardous waste that must be disposed of in accordance with local regulations. Any chemical removal should be done with proper ventilation and the appropriate PPE in place.

2. EXPOSURE CONTROL INFORMATION

Engineering Controls	Local exhaust ventilation/dust collection should be used to limit airborne concentrations to the lowest attainable level. Refer to local regulatory Occupational Exposure Limits (OEL) for tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate.
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<p align="center">Personal Protective Equipment</p>	<p>Skin: Protective clothing to avoid contact with exposed skin may include coveralls, gloves and head/face covering. Disposable/single use protective clothing is recommended.</p> <p>Eyes: Safety glasses and/or goggles are recommended.</p> <p>Respiratory protection: An exposure assessment should be conducted to determine the level of respiratory protection warranted for a task. All elements of a respiratory protection program shall comply with applicable laws and regulations.</p>
<p align="center">Disposal Considerations</p>	<p>Participate in end-of-life product take-back programs whenever available. If no program is available, reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made according to applicable governmental regulations.</p>
<p><i>This safe use document may contain information received from a variety of sources. Although Collins Aerospace developed this safe use instruction, Collins Aerospace does not independently test, evaluate, or verify 1) the accuracy of any information or 2) the soundness of any judgment contained in the safe use instructions. Collins Aerospace disclaims liability for any personal injury, property or other damages of any nature whatsoever, whether special, indirect, consequential or compensatory, directly or indirectly resulting from the publication, use or reliance on this safe use instruction. Collins Aerospace also makes no guarantee or warranty as to the accuracy or completeness of any information published herein. Actors in the supply chain who are users of safe use instructions should be aware that these instructions may be superseded at any time by issuance of new revisions.</i></p>	
<p>References</p> <p align="center">This document does not contain any export controlled technical data</p>	

<p>Revision – 1</p> <p>Approver – Blair Smith</p> <p>Release Date – 7/19/2021</p>
