



Carcinogenicity	Not available.
Medical Conditions Aggravated by Exposure	Respiratory conditions.
Target Organs	Not available.
Potential Environmental Effects	Not available.

### 3.0 Composition/Information on Ingredients

All main modules (installed components) are constructed of inert metals and plastics. They contain the hybrid inflator with a chemical composition listed below.

Ingredients	Cas. No.	EC No.	% by Weight	EU Classification	EU R-Phrases
<b>ACH 2.2</b>					
Steel Casing & Hardware	Not Applicable	Not Applicable	92-96		None
Argon [Ar]	7440-37-1	231-147-0	3-5		None
Helium [He]	7440-59-7	231-168-5	1-3		None
<b>ACH 2.2 EV</b>					
Steel Casing & Hardware	N/A	N/A	92-96		None
Argon [Ar]	7440-37-1	231-147-0	3-5		None
Helium [He]	7440-59-7	231-168-5	1-3		None
Airbag Inflator Ignitor Generant [MIP-1191]	Not Applicable	Not Applicable	<1	F, Xn	R2,10,34,36,37,38, S2,4,13,15,16,18, 23,24/25,33,36/37/38, 47,59

### 4.0 First Aid Measures

<b>Inhalation</b>	None expected when used as intended.
<b>Eyes</b>	None expected when used as intended.
<b>Skin</b>	None expected when used as intended.
<b>Ingestion</b>	None expected when used as intended.
<b>Symptoms (Acute or Delayed)</b>	None expected when used as intended.
<b>Immediate Medical Care/Special Treatment</b>	None expected when used as intended.

### 5.0 Fire Fighting Measures

Do not attempt to extinguish a fire involving a large number of systems or areas containing stored systems. Inflators will be activated at temperatures great than 266° F (130° C). At such temperature, this device may ignite and act as a projectile. Take precautions against projectile hazards. Use water from a safe distance to cover other building exposures. Allow inflators to cool for several hours before approaching them. Hazardous material specialists should be used for clean-up and approach in accordance with federal, state, and local regulations.

### 6.0 Accidental Release Measures

<b>Personal Precautions</b>	If inflator is ruptured and gas generant is present, use impervious gloves, safety goggles, dust mask, safety shoes, and flame treated clothing when cleaning contaminants.
<b>Environmental Precautions</b>	N/A

<b>Methods for Clean-up &amp; Containment</b>	When handled and installed properly, no spills or leaks should occur. If inflator is ruptured and gas generant is present, clean up with non-sparking tools. Avoid spark, static electricity, and open flame. Avoid raising dust. Ventilate area. Wash spill site with water after material pick-up is complete. Wear all PPE (Personal Protective Equipment) in accordance with "Personal Precautions" of Section 6.0 – Accidental Release Measures.
<b>Emergency Procedures</b>	Evacuate immediate area and/or room containing ruptured inflator and gas generant until contaminants are cleaned up in accordance with "Methods for Clean-up & Containment" of Section 6.0 – Accidental Release Measures.

7.0 Handling and Storage	
<b>Handling</b>	Avoid spark, ESD (Electrostatic Discharge), impact, friction, and open flame. Post deployment, the surface of the inflator may have trace amounts of particulate and is usually hot. Residue may be irritating to the skin, eyes, respiratory systems, and mucous membranes. Latex or nitrile gloves under leather gloves or equivalent is recommended if handling hot fired inflators. This device will be activated at temperatures great than 266° F (130° C). DO NOT cut, drill, braze, solder, weld, strike, or probe the steel container.
<b>Storage</b>	Recommend storage at ambient temperatures and on lower level racks. Store away from high temperatures, open flame, static electricity, and other ignition sources. Store in accordance with federal, state, and local regulations.

8.0 Exposure Control/Personal Protection			
Exposure Limit Values	OSHA-PEL	ACGIH-TLV	Other Limits
<b>ACH 2.2 &amp; 2.2 EV</b>			
Steel Casing & Hardware	Not Established	Not Established	Not Applicable
Argon [Ar]	Not Established	Not Established	Not Applicable
Helium [He]	Not Established	Not Established	Not Applicable
Air Bag Inflator Igniter Generant [MIP-1191]	Not Established	Not Established	Not Applicable
<b>Engineering Controls</b>	Effluent gases from multiple ignition testing situations may cause skin, eye, or respiratory irritation. Use approved engineering controls, such as ventilation fans, to minimize exposure to effluent gases. Use approved personal protective equipment in accordance with Section 6.0 – Accidental Release Measures – as a short-term control until engineering controls are adequate.		
<b>Personal Protective Equipment</b>			
Respiratory Protection	For multiple deployment testing situations use a NIOSH approved respirator.		
Hand Protection	Nitrile or latex gloves under leather gloves or equivalent gloves.		
Eye Protection	Safety glasses or goggles.		
Skin Protection	Avoid skin contact with gas generant.		
General Hygiene Responsibilities	Use good personal hygiene at all times. Be sure to wash hands after handling inflators.		

9.0 Physical and Chemical Properties	
<b>General Information</b>	
Appearance, Physical Form	Steel or aluminum structures with plastic deployment cover.

Color	Varies
Odor/Odor Threshold	None
<b>Important Health, Safety, and Environmental Information</b>	
Boiling Point	Not Applicable
Melt Point/Freeze Point	Not Applicable
Flash Point	Not Applicable
Flammability	ACH 2.2 - Gas (Helium), ACH 2.2 EV – Gas (Helium) and Solid (MIP-1191)
<b>9.0 Physical and Chemical Properties (cont.)</b>	
pH	Not Applicable
Solubility in Water	Not Applicable
Specific Gravity	Not Applicable
% Volatile by Weight	1-3%
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Partition Coefficient: n-octonal/water	Not Applicable
Evaporation Rate	Not Applicable
Explosive Properties	Projectile
Viscosity	Not Applicable
Decomposition Temperature	Not Applicable
Auto-ignition Temperature	266° F (130° C)
Relative Density	Not Applicable
Upper Flammability/Explosive Limit	266° F (130° C)
Lower Flammability/Explosive Limit	Not Applicable

<b>10.0 Stability and Reactivity</b>	
<b>Reactivity</b>	For specific test data for the chemical used in the inflators, contact Autoliv Inc., Autoliv Inflators; +1-435-734-6849
<b>Chemical Stability</b>	Seal unit is stable when used as designed, as well as handled and stored in accordance with Section 7.0 "Handling and Storage".
<b>Conditions to Avoid</b>	Sparks, static electricity, open flame and hot temperatures.
<b>Incompatible Materials</b>	None in present form.
<b>Hazardous Decomposition Products</b>	May release carbon dioxide and trace amounts of carbon monoxide and hydrogen.
<b>Possibility of Degradation to Unstable Products</b>	Not determined.

<b>11.0 Toxicology Information</b>	
<b>Acute Effects</b>	
Oral LD50	Not applicable in present form.
Dermal LD50	Not applicable in present form.
Inhalation	Not applicable in present form.
Ingestion	Not applicable in present form.
Eye Irritation	Not applicable in present form.

Skin Irritation	Not applicable in present form.
Sensitization	Not applicable in present form.
<b>Chronic Effects</b>	
Carcinogenicity	Not applicable in present form.
Mutagenicity	Not applicable in present form.
Reproductive Effects	Not applicable in present form.
Developmental Effects	Not applicable in present form.

12.0 Ecological Information	
<b>Ecotoxicity</b>	Not available.
<b>Mobility in Environment</b>	Not available.
<b>Persistence and Degradability</b>	This device is sealed and under normal conditions poses no exposure hazard to human health or the environment.  <b>California Use Only:</b> Special handling may apply. See <a href="http://www.dtsc.ca.gov/hazardouswaste/perchlorate">www.dtsc.ca.gov/hazardouswaste/perchlorate</a>
<b>Bioaccumulative Potential</b>	Not available.

13.0 Disposal Consideration	
In the United States, disposal of fully functional airbag inflators is required by the EPA. These inflators are considered reactive hazardous waste (waste code D003). Inflators can be deactivated by thermal treatment. Dispose in accordance with Federal, State, and Local regulations.	

14.0 Transportation Information	
This Safety Data Sheet is not intended to have all shipping information.	
<b>Identification Number</b>	UN3268
<b>Proper Shipping Name</b>	Safety Devices
<b>Hazard Classification</b>	Class 9 – Miscellaneous Hazardous Materials
<b>Packaging Group</b>	-
<b>DOT Approval Number</b>	Specific to the individual program
<b>For further information contact:</b>	IMMI 18881 IMMI Way Westfield, IN 46074 317-896-9531

15.0 Regulatory Information	
<b>OSHA Status</b>	Manufactured article
<b>TSCA Chemical Inventory</b>	The components of this product are listed on the Toxic Substance Control Act (TSCA) inventory.
<b>CERCLA Reportable Quantity, 40 CFR 302</b>	No
<b>EPCRA Section 302, Extremely Hazardous Substances</b>	No

15.0 Regulatory Information (cont.)	
<b>EPCRA Section 311/312, Hazard Category</b>	Yes
<b>EPCRA Section 313, Toxic Chemicals</b>	Yes
<b>RCRA Information</b>	Please see Section 13, "Disposal Considerations" for recycling information. Otherwise, dispose of in accordance with all federal, state, and local regulations.
<b>Information for Community</b>	Not determined
<b>EU Classifications</b>	F, Xn
<b>EU Phrases</b>	R2 Risk of Explosion by shock, friction, fire, or other sources of ignition R10 Flammable R34 Causes Burns R36 Irritating to eyes R37 Irritating to respiratory system R38 Irritating to skin S2 Keep out of reach of children. S4 Keep away from living quarters S13 Keep away from food, drink, and animal foodstuffs S15 Keep away from heat
<b>EU Phrases (cont.)</b>	S16 Keep away from sources of ignition S18 Handle and open container with care S23 Do not breathe effluents S24/25 Avoid contact with skin and eyes S33 Take precautionary measures against static S36/37/39 Wear suitable protective clothing, gloves, and eye/face protection S47 Keep at temperature not exceeding 266° F (130° C) S59 Refer to manufacturer for recycling

16.0 Other Information				
<b>Supplier Information</b>	The environmental, health, and safety information contained herein is given in compliance with statutory obligations and relates only to the substance/preparation described in this safety data sheet. This safety data sheet is provided for information only and is not intended to create or imply any representation, agreement or warranty, whether express or implied except to the extent required by applicable law. The environmental, health, and safety information contained herein is believed to be accurate based on our current knowledge. It remains the sole responsibility of the customer to provide a safe workplace and to comply with all applicable laws and regulations. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or of applicable laws or regulations.			
<b>HMIS Ratings</b>	Health – 0	Flammability – 0	Reactivity – 1	PPE - X
<b>SDS Preparation Data</b>	11/28/2018			
<b>SDS Revision Level</b>	05			
<b>SDS Changes</b>	Changed document from MSDS to OSHA compliant SDS			

