

MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name	Driver Side Air Bag
Manufacturer	IMMI 18881 IMMI Way Westfield, Indiana 46074 USA 317-896-9531
24/7/365 Incident Response Number	Within USA and Canada: 1-800-424-9300 CCN724403 Outside USA and Canada: +1 703-741-5970 (collect calls accepted) For emergency calls only. Non-emergency calls cannot be serviced at this number.
Synonyms/Programs	DAB, Steering Wheel Air Bag, Frontal Bag
Product Code	A80123
Document Revision/Date	Rev. 4, 1/2018

Section 2: TYPICAL INFLATOR COMPOSITION

INGREDIENTS	%	CAS NO. 1	OSHA-PEL2	ACGIH-TLV3
Steel casing & hardware	80%	7429-90-5	NA*	NA*
MNP-352 gas generant	10-20%	NE**	NE**	NE**

1	=	Chemical Abstracts Service Number
2	=	Occupational Safety and Health Administration – Permissible Exposure Limit
3	=	American Conference of Governmental Industrial Hygienists – Threshold Limit Value
*	=	Not applicable due to present form
**	=	Not established

Section 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

The tamper-resistant, sealed metal container contained inside the airbag module poses no risk of chemical exposure before deployment. It may cause some irritation after deployment. If module/inflator is incinerated, broken, drilled into, or electric current is connected to lead wires, a physical hazard may exist upon deployment if held or installed improperly. This inflator contains a small percentage by weight of a solid propellant explosive. Do not drill, break, or breach the mild steel container.

POTENTIAL HEALTH EFFECTS

ROUTE(S) OF ENTRY None expected, when used as intended.

HUMAN HEALTH EFFECTS AND SYMPTOMS OF OVEREXPOSURE

INHALATION(1)	None expected, when used as intended.
SKIN CONTACT(1)	None expected, when used as intended.
EYES(1)	None expected, when used as intended.
INGESTION(1)	None expected, when used as intended.
CARCINOGENICITY	To the best of our knowledge, there are no carcinogenic materials contained in this formulation.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE None expected, when used as intended.

- (1) Effluent gases from multiple deployments in testing situations may cause skin, eye, or mucous membrane irritation. Effluent gases in these situations must be effectively controlled through engineering systems designed and tested to remove applicable contaminants or PPE that will accomplish the same effect.



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4. FIRST AID MEASURES

INHALATION	None expected when installed as intended.
EYES	None expected when installed as intended.
SKIN	None expected when installed as intended.
INGESTION	None expected when installed as intended.

5. FIRE FIGHTING MEASURES

FLASH POINT	Not Applicable
AUTO IGNITION TEMPERATURE	Approximately 365°F (185°C)
EXPLOSION LIMITS	Not applicable
EXPLOSION HAZARD	Not applicable
EXTINGUISHING MEDIA	Water may be used to cool unburned inflator.
SPECIAL FIRE FIGHTING PROCEDURES	This device will be activated by extended exposures to temperatures about 365°F (185°C); and when activated, produces nitrogen gas, water, and oxides of carbon and nitrogen. Do not attempt to extinguish a fire involving a large number of systems. 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.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES When handled properly, no spills or leaks should occur. If a spill or leak occurs, contain the material, wet with water, and clean up with non-sparking tools. Avoid spark, static electricity, and open flame. Avoid raising dust and ventilate area. Wash spill site with water after material pick-up is complete.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE	Ambient (less than 140°F [60°C])
HANDLING AND STORAGE PRECAUTIONS	Inspect unit for damage following shipment and prior to installation. Store modules in their original shipping containers. Store damaged or defective units in dry place, in limited quantities. Do not expose systems to heat, spark, flame, static electricity, or any other ignition source. For more information, call or write to address on page 1.
POST DEPLOYMENT HANDLING GUIDELINES	After deployment, the surface of the inflator/module may have trace amounts of particulate present and is usually very hot. These are conditions of the main products of inflator combustion. Residue is irritating to the skin, eyes, and mucous membranes. Latex under leather gloves or equivalent is recommended if handling fired inflators.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EFFLUENT GASES(2)	None required, when used as intended.
EYE PROTECTION(2)	None required, when used as intended.
SKIN PROTECTION(2)	None required, when used as intended.
RESPIRATORY/VENTILATION REQUIREMENTS(2)	None required, when used as intended.
EXPOSURE LIMITS	See section 2.

- (2) Multiple deployments, seen in testing conditions, pose different risks to potential elevated effluent gas levels. In these potentially elevated concentration situations, effluent gases may cause skin, eye, lung, or mucous membrane irritation. Use approved engineering controls to minimize exposure to effluent gases. Use approved personal protective equipment when engineering controls are not adequate or have not been implemented and have a competent Occupational Health and Safety Engineer determine if the test environments are safe.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Sealed TPO plastic; sealed steel inflator contained within
COLOR	Black
ODOR	No odor
BOILING POINT	Not applicable
MELT POINT/FREEZE POINT	Not applicable
pH	Not applicable
SOLUBILITY IN WATER	For chemicals within unit: approximately 12%
SPECIFIC GRAVITY	Not applicable
% VOLATILE BY WEIGHT	Not applicable
VAPOR PRESSURE	Not applicable
VAPOR DENSITY	Not applicable
BULK DENSITY	Not applicable
COEFFICIENT OF WATER/	
OIL DISTRIBUTION	Not applicable
EVAPORATION DATE	Not applicable

10. STABILITY AND REACTIVITY

STABILITY	Sealed unit is stable when used as designed.
HAZARDOUS POLYMERIZATION	None
INCOMPATIBILITIES	Temperatures above 365°F (185°C) may cause unit to auto-ignite.
DECOMPOSITION PRODUCTS	Nitrogen gas, water, and oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

INHALATION	Not applicable in present form.
INGESTION	Not applicable in present form.
SKIN & EYE IRRITATION	Not applicable in present form.
MUTAGENICITY/ REPRODUCTIVITY/ CARCINOGENICITY	Not applicable in present form.

12. ECOLOGICAL INFORMATION

Perchlorate Material – Special Handling May Apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

13. DISPOSAL CONSIDERATIONS

In the United States, the EPA regulates disposal of fully functional airbag inflators. These inflators are considered reactive hazardous waste (waste code D003). Inflators can be deactivated by thermal treatment. Check local requirements for disposal options.

14. TRANSPORTATION INFORMATION

These systems are regulated by the U.S. Department of Transportation as Class 9 hazardous materials. All transport must comply with applicable DOT regulations.

This MSDS is not intended to be a shipping document. For further shipping information, contact: 1-866-765-5835

15. REGULATORY INFORMATION

OSHA Status:	This product meets the definition of an article. Individual chemical components are hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA Chemical Inventory:	The components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.
RCRA Information:	Please see Section 13 Disposal Considerations for recycling information. Otherwise, dispose of in accordance with all federal, state or provincial and local regulations.

16. OTHER INFORMATION

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 material safety data sheet. This material 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.

HMIS by NPCA Criterion

Health	0
Flammability	0
Reactivity	1
PPE	X



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