SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name • Shock Absorber / Air Spring Module
Recommended Use • Automotive – Suspension Systems
Applicable Products • Aftermarket and Motorsports Catalog Parts

Manufacturer/Importer/Supplier/Distributor Information

Distributor • thyssenkrupp Bilstein of America, Inc.
Aftermarket and Motorsport Division
14102 Stowe Drive
Poway, CA 92064, United States
Telephone • (858) 386 5900
Fax • (858) 386 5901
Email • sds@BilsteinUS.com
Emergency Telephone Number • (+1) 202 464 2554 National Chemical Emergency Centre (NCEC)

SECTION 2: HAZARD IDENTIFICATION

Classification according to: OSHA 29 CFR 1910.1200

Hazard Classification

This product as sold is classified as an article under the OSHA Hazardous Communication Standard, 29 CFR 19.10.1200 and as such is exempt from the requirement for classification and labeling. The product in its manufactured and shipped state and under normal and expected conditions of use does not pose a physical hazard or health risk. However, the product contains a mineral oil and nitrogen gas under pressure, sealed within the article, which may present a hazard if released.

Label Elements

Signal Word • Danger

Hazard Symbol

Hazard Statements • Contains gas under pressure; may explode if heated
May be fatal if swallowed and enters airways

Precautionary Statements

Response • If SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
Do NOT induce vomiting.
Storage • Store locked up.
Protect from sunlight. Store in a well-ventilated place
Disposal • Dispose of contents to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at the time of disposal.
Other hazards • No additional information available

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component(s):

Chemical Name	Identifiers	%	GHS-US Classification
Nitrogen	CAS: 7727-37-9	<1%	Gases under Pressure: Category 1
Mineral Oil	Confidential	<15%	Aspiration Hazard: Category 1

Specific chemical identifies and /or exact percentages have been withheld as trade secret.

SECTION 4: FIRST-AID MEASURES

The first aid measures described below are in relation to the mineral oil and nitrogen gas, which may present a hazard if ingested, inhaled or comes into contact with the skin or eyes.

Ingestion
- Obtain medical attention immediately if ingested. Rinse mouth. Do NOT induce vomiting.

Inhalation
- Move to fresh air. If signs/symptoms continue and feel unwell, get medical attention.

Skin Contact
- In case of contact with substance, wash contact areas with soap and water. If irritation develops and persists, get medical attention.

Eye Contact
- Immediately flush eyes with running water for at least 15 minutes. If eye irritation persists, get medical assistance.

Treatment
- Get medical attention as appropriate if symptoms persist.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards
- Contains gas under pressure; may explode if heated

Suitable Extinguishing Media
- Water spray, fog, CO_2, dry chemical or regular foam. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media
- No data available

Special Hazards
- In a fire or if heated, a pressure increase can occur and the article may burst or explode. During fire, decomposition products hazardous to health may be formed.

Special Fire Fighting Procedures
- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move articles from fire area if this can be done without risk. Use water spray to keep fire-exposed articles cool.

Special Protective Equipment and Precautions for Fire Fighters
- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions
- Do not touch damaged articles or spilled material unless wearing appropriate personal protective equipment. Ensure adequate ventilation.

Protective Equipment
- Personal protective equipment is detailed in section 8.

Emergency Procedures
- Keep unauthorized personnel away.

Environmental precautions
- Avoid spills being released to the environment. Do not contaminate water sources or sewer.

Methods and material for containment and cleaning up
- Prevent leakage or spillage if safe to do so. Absorb with sand or other non-combustible absorbent material and place into containers for later disposal.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling
- Use only with adequate ventilation. Wear appropriate personal protective equipment. Do not breathe mist, vapors and/or spray. Do not puncture or incinerate article. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage including any incompatibles
- Store locked up. Store away from direct sunlight in a well-ventilated area.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Nitrogen	Non established, simple asphyxiant.		
Mineral Oil – Mist	PEL	5 mg/m^3	US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 19.1000)
Mineral Oil - Mist	STEL	5 mg/m^3	US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 19.1000)

Engineering Measures/Controls
- These are not required under normal and expected conditions of use. If operations or work practices will generate liquid aerosols, mists, or vapors or produce metal or paint dusts, fumes, or particulate matter, local exhaust ventilation should be provided to maintain exposures below limits.

Protective Measures
- Use personal protective equipment as required.

Respiratory Protection
- Respiratory controls are not required under normal and expected conditions of use. Use suitable respirator if exposure limits are exceeded or symptoms are experienced.

Eye Protection
- Wear safety glasses with side shields or goggles.

Skin and Body Protection
- Wear appropriate gloves.

Hygiene Measures
- Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment. Release is not expected under normal conditions of use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance			
Physical State:	Solid	Appearance:	Metallic
Color:	Varies		
General Properties			
Odor:	N/A	Odor Threshold:	N/A
pH:	N/A	Relative Density:	N/A
Melting Point/Freezing Point:	N/A	Initial Boiling Point and Boiling Range:	N/A
Solubility (water):	Not Soluble	Solubility (other):	No data available
Viscosity:	N/A	Partition coefficient (n-octanol/water):	N/A
Volatility			
Vapor Pressure:	N/A	Vapor Density:	N/A
Flammability			
Flash Point:	N/A	Evaporation Rate:	N/A
Flammability (solid, gas):	N/A	Upper/Lower Flammability:	N/A
Auto ignition temperature:	N/A	Decomposition Temperature:	N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity	• No reactivity known under expected conditions of normal use
Chemical Stability	• Stable under normal temperature and pressures
Possibility of Hazardous Reactions	• None under normal conditions use and storage conditions.
Conditions to Avoid	• Avoid heat. Danger of receptacles bursting due to high vapor pressure if heated.
Incompatible Materials	• No data available.
Hazardous decomposition products	• Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological information is provided in reference to the mineral oil.

Ingestion	• Ingestion may result in vomiting. Ingestion may cause irritation and malaise.
Inhalation	• Harmful if inhaled, may cause irritation of the mouth, throat, mucous membranes and respiratory tract.
Skin Contact	• Prolonged skin contact may cause redness and irritation
Eye Contact	• Eye contact should be avoided

Symptoms related to the physical, chemical and toxicological characteristics:

Ingestion	• No data available
Inhalation	• No data available
Skin Contact	• No data available
Eye Contact	• No data available

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	• No data available
Dermal	• No data available
Inhalation	• No data available
Repeated dose Toxicity	• No data available
Skin Corrosion/Irritation	• No data available
Serious Eye Damage/Eye Irritant	• No data available
Respiratory or Skin Sensitization	• No data available
Carcinogenicity	• No data available
Germ Cell Mutagenicity	• No data available
Reproductive Toxicity	• No data available
Specific Target Organ Toxicity Single Exposure	• No data available
Specific Target Organ Toxicity Single Exposure	• No data available
Aspiration Hazard	• May be fatal if swallowed and enters airways

SECTION 12 - ECOLOGICAL INFORMATION

General Information	• This product has not been evaluated for ecological toxicity or other environmental effects

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Instructions

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations, must be applied.

SECTION 14 - TRANSPORT INFORMATION

This article is not regulated for transport. See additional information for transport exceptions and/or special provisions relating to this article.

Additional Information:

Identification Number	Proper Shipping Name	Hazard Class/ Division	Packing Group	Environmental Hazard
UN 3164	Articles, pressurized pneumatic	2.2	N/A	No

DOT
- Not regulated for transport, exception 49 CFR §173.306(f)(4) applies

TDG (Canada)
- Not regulated for transport, TDG special provision 40 applies

Mexico
- Not regulated for transport, NOM-002-SCT/2011 special provision 283 applies

ADR
- Not regulated for transport, special provision 283 applies

IMDG
- Not regulated for transport, IMO IMDG special provision 283 applies

IATA
- Not regulated for transport, IATA special provision A114 applies

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Not applicable for article as supplied

Reference should be made to the relevant national and international standards to ensure the product is transported in accordance with the requirements of the applicable regulation.

SECTION 15 - REGULATORY INFORMATION

US State Regulations:

State of California
- This product contains chemicals found on the Proposition 65 List.

  ⚠ **Warning**: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

SECTION 16 - OTHER INFORMATION

Revision Date
- 29th January 2019

Preparation Date
- 13th November 2018

Version
- Version 2

Disclaimer/Statement of Liability
- thyssenkrupp Bilstein Aftermarket and Motorsports Division requests users study this Safety Data Sheet (SDS) to become aware of hazards which may be presented during the use of this article. The article in its manufactured and shipped state and under normal and expected conditions of use does not pose a physical hazard or health risk. The information contained herein is current as of the date of this SDS. Since product use is not within control of thyssenkrupp Bilstein, it is user's obligation to determine conditions for safe use. Opinions expressed herein are those of qualified experts within the thyssenkrupp Bilstein Aftermarket and Motorsports Division.