

### SHOCKS AND STRUTS – NON PRESSURIZED

## 1. Product Identification

- **Synonyms:** Shock absorbers; MacPherson struts; MacPherson cartridges
- **CAS No.:** N/A
- **Molecular Weight:** N/A
- **Chemical Formula:** N/A
- **Product Codes:** All non-pressurized Gabriel shocks and struts (excludes gas-charged Ultra, Proguard, Max Control & Guardian series)
- **Contact Information:** Gabriel Ride Control  
39300 Country Club Dr  
Farmington Hills, MI 48331 US  
248-247-7600

## 2. Hazards Identification

- **GHS-US Classification:**
- **Classification of intact product:** No hazard classifications
- **Classification of hydraulic fluid:** Acute toxicity – 5  
Mild skin irritation – 3  
Eye irritation – 2B
- **Signal word (GHS-US):** Warning
- **Hazard statements (GHS-US):** H303-May be harmful if swallowed  
H316-Causes mild skin irritation  
H320-Causes eye irritation
- **Precautionary statements (GHS-US)**  
if exposed to hydraulic fluid: P264 - Wash face, hands and any exposed skin thoroughly after handling.

## 3. Composition/Information on Ingredients

Ingredient	Formula	CAS No.	Mass %	ACGIH (TLV) (mg/M <sup>3</sup> )	OSHA (PEL) (mg/M <sup>3</sup> )
Steel	N/A	not est.	60-85%	5*	5*
Hydraulic fluid: Petroleum distillates (one or more of the following): solvent dewaxed light paraffinic solvent refined light paraffinic Paraffinic medium oil Naphtenic light oil 1-Decene, dimmer, hydrogenated White mineral oil Lubricating oils, petroleum, C15-30, hydrotreated neutral oil-based Phosphorodithioic acid, O,O-di-C14-alkyl esters, zinc salts Oleic acid Tributylamine	N/A	64742-56-9 64741-89-5 64741-50-0 64741-50-0 686649-11-6 8042-47-5 72623-86-0 68649-42-3 112-80-1 102-82-9	5-20%    0-6% < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	5	5
Sintered iron	Fe	7439-89-6	0-10%	5	5
Natural rubber	NR	not est.	0-10%	not est.	not est.
Nitrile rubber	NBR	not est.	0-5%	not est.	not est.
Nylon	PA66	not est.	0-5%	not est.	not est.
Chrome plating	Cr	7440-47-3	< 1%	0.5	1
Teflon	PTFE	not est.	< 1%	not est.	not est.
Grease (hydrotreated heavy paraffinic)	N/A	64742-54-7	< 1%	5	5

\* = Exposure limits are based on iron-containing welding fumes.

## 4. First Aid Measures

- **Inhalation:** N/A
- **Ingestion:** Harmful if liquid portion of shock or strut is swallowed. Do not induce vomiting. Seek medical assistance.
- **Skin Contact:** If liquid portion of shock or strut comes into contact with clothing or skin, wash with soap and water. Remove contaminated clothing.

## SHOCKS AND STRUTS – NON PRESSURIZED

- **Eye Contact:** Flush with water for 15 minutes. If irritation remains consult a physician.

**5. Fire Fighting Measures**

- **Fire:** Remove product from flames if safe to do so. Otherwise stay clear until professional help arrives.
- **Fire Extinguishing Media:** Dry Chemical or CO<sub>2</sub>
- **Special Information:** Store away from high heat sources [ $> 100\text{ }^{\circ}\text{C}$  ( $212\text{ }^{\circ}\text{F}$ )]

**6. Accidental Release Measures**

- Shocks and Struts, based on their individualistic nature, do not pose a release hazard on a large scale. Should a shock or strut leak fluid, clean and dispose of the fluid in accordance with local oil disposal requirements. Shock or strut (metal housing) may be disposed of following local general waste disposal guidelines.

**7. Handling and Storage**

- Contents contain hydraulic fluid. Store away from direct flame or heat sources [ $> 100\text{ }^{\circ}\text{C}$  ( $212\text{ }^{\circ}\text{F}$ )].

**8. Exposure Controls/Personal Protection**

- **Airborne Exposure Limits:** None
- **Ventilation System:** N/A
- **Personal Respirators (NIOSH Approved):** N/A
- **Skin Protection:** N/A
- **Eye Protection:** N/A

**9. Physical and Chemical Properties**

- **Appearance:** Metal Shock or Strut
- **Odor:** None
- **Solubility:** N/A
- **Specific Gravity:** N/A
- **PH:** N/A
- **% Volatiles by volume @21 °C (70 °F):** N/A
- **Boiling Point:** N/A
- **Melting Point:** N/A
- **Vapor Density (Air = 1):** N/A
- **Vapor Pressure (mm Hg):** N/A
- **Evaporation Rate (BuAc = 1):** N/A

**10. Stability and Reactivity**

- **Stability:** Stable
- **Hazardous Decomposition Products:** N/A
- **Hazardous Polymerization:** N/A
- **Incompatibilities:** N/A
- **Conditions to Avoid:** N/A

**11. Toxicological Information**

- **Ingredient:** No constituents are known, suspected, or anticipated human carcinogens. Chromium has been irreversibly bound via plating process and presents no hazard.

**12. Ecological Information**

- **Environmental Fate:** N/D
- **Environmental Toxicity:** Same as any very small quantity (10ml) of oil.

**13. Disposal Considerations**

- Shocks and struts, based on their individualistic nature, do not pose a release hazard on a large scale.
- Shock fluid should be disposed in accordance with local oil disposal requirements. Shock or strut (metal housing) may be disposed of following local general waste disposal guidelines.

**SHOCKS AND STRUTS – NON PRESSURIZED****14. Transport Information**

- Non gas charged shocks and struts are not subject to transportation restrictions.

**15. Regulatory Information**

- **Ingredient:** N/A
- **WHMIS (Canada):** N/A
- **SARA Title III Classification:** N/A
- **TSCA:** N/A
- **EC:** N/A
- **Japan:** N/A
- **Australia:** N/A
- **Chemical Weapons Convention:** N/A

**16. Other Information**

- **HMIS Classification**
  - **Health Rating (intact product):** 0                      Health Rating (for hydraulic fluid): 1
  - **Flammability Rating (intact product):** 0                      Flammability Rating (for hydraulic fluid): 1
  - **Physical Hazard (intact product):** 0                      Physical Hazard (for hydraulic fluid): 0
  - **Personal Protection Equipment:** N/A
- **Label Hazard Warning:** None
- **Label Precautions:** None
- **Label First Aid:** None
- **Revision Information:** 10 February 2015 (rev B); Original release 10 Aug 2010

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