

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Not classified (Article)  
 General product description : Disk brake pad  
 Ingredients and composition : The ingredients of friction materials are as follows.

Chemical name	Composition(wt%)	Chemical formula	CAS No.
Phenol-formaldehyde polymer	5~10	-	9003-35-4
Zirconium oxide	20~25	ZrO <sub>2</sub>	1314-23-4
Potassium titanium oxide(powder)	5~15	-	12056-51-8
Copper	10~20	Cu	7440-50-8
Steel fiber	2~8	Fe	7439-89-6
Barium sulfate	2~8	BaSO <sub>4</sub>	7727-43-7
Graphite(synthetic)	2~5	C	7782-42-5
Calcium hydroxide	1~5	Ca(OH) <sub>2</sub>	1305-62-0
Zinc	1~5	Zn	7440-66-6
Aluminum oxide(powder)	1~5	Al <sub>2</sub> O <sub>3</sub>	1344-28-1
Aramid fiber	1~4	-	26125-61-1
Others	15~25	-	-

There is no intentional component of the following materials.

Pb, Hg, Cr(Hexavalent), PBB, PBDE, Asbestos, Crystalline silica (<1000ppm)

Cd (<100ppm)

## 4. FIRST – AID MEASURES

Inhalation : Remove the victim from exposure and move to fresh air and keep him at rest. If breathing is difficult, give oxygen or artificial respiration. Loosen the clothes and make sure that his airway is open and get medical aid immediately.

Skin contact : Wash the affected area with soap. Get medical aid if irritation develops or persists.

Eye contact : Flush with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical aid immediately.

Ingestion : Do not induce vomiting. Rinse mouth and get medical aid immediately.

## 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide, Dry chemical powder, water spray, foam and dry sand.

Prohibited extinguishing media : Do not use straight streams of water.

Extinguishing media : For small fires, use dry chemical, carbon dioxide, or dry sands, etc. For large fires, use foam extinguisher. Move containers from fire area if it can be done without risk, and if possible, apply water from a safe distance to cool and protect surrounding area. Fire water and dilution water must be contained and prevented from being discharged to any waterway, sewer, or drain in order not to cause environment pollution.

Protection for firefighters : Wear self-contained breathing apparatus and full protective gear. During a fire irritating and highly toxic gases (carbon