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## PRODUCT SAFETY DATA SHEET

### IRR Sensor Series

This product is not subject to the SDS systems due to its enclosed structure.  
This sheet does not guarantee the safety, but is provided only as information for safe use of the sensor.

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Infrared type sensor (Model IRR sensor series)  
Product model :

Sensor model	Detection target gas
IRR-0409	CO <sub>2</sub>
IRR-0433	CO <sub>2</sub>

Company : Riken Keiki Co., Ltd.  
Address : 2-3 Minamisakae-cho, Kasukabe, Saitama 344-0057 Japan  
Department : Quality Control Department, division 2  
Telephone : +81-48-878-8047 (Quality Control Department, division 2)  
FAX number : +81-48-761-1181

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#### 2. HAZARDS IDENTIFICATION

GHS classification : Not applicable  
Health hazards : There is no hazard as a sensor.  
Physical hazards : Throwing into fire or heating over 100 °C may cause explosion.

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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Part	Chemical name or general name	CAS No.	Content ratio to sensor weight (wt%)
Composing material	Resin	—	≦ 51.9
	Electronic component	—	≦ 22.4
	Printed-circuit board (PCB)	—	≦ 21.7
	Stainless steel (SUS)	—	≦ 9.0
	Other materials	—	≦ 0.7

#### 4. FIRST AID MEASURES

This sensor has no hazard in normal condition/use since it is solid and does not contain any liquid inside.

#### 5. FIRE FIGHTING MEASURES

This sensor has no risk of ignition or flammability in normal condition since it is incombustible. In case of fire around the product, take appropriate measures to extinguish.

Suitable extinguishing media : This product is not combustible by itself. Use fire extinguisher suitable for the fire conditions.

Special extinguish method : Remove enclosure from the fire area if not dangerous. Continue to cool the enclosure with much water even after the fire extinguished. In case of fire around the product, move enclosures to a safe area if possible.

#### 6. ACCIDENTAL RELEASE MEASURES

This sensor has no risk of leakage in normal condition/use since it is solid and does not contain any liquid inside.

## 7. HANDLING AND STORAGE

Handling : Pack up with materials strong enough to prevent damage due to vibration, impact, drop, and/or stack during transportation.  
Avoid deformation by pressing, fire exposure and decomposition.  
Do not mix with other sensors, used and unused ones.

Storage : Keep dry (avoid wet with rain) during storage and transportation.  
Keep the sensor from high temperature, direct sunlight, heat exposure (ex. stove), high humidity, condensing, waterdrop or freezing during storage.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Facility measures : No need in normal use.  
Acceptable level : Not set up for normal use.

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## 9. PHYSICAL AND CHEMICAL STATE

Appearance : Cylindrical

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## 10. STABILITY AND REACTIVITY

This sensor is a electric product using infrared rays.  
If the temperature is not maintained under proper conditions during actual use and storage, there is a risk of deterioration in life, performance, and damage to equipmnt.

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## 11. TOXICOLOGICAL INFORMATION

No toxicity.

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## 12. ECOLOGICAL INFORMATION

No ecological information.

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## 13. DISPOSAL CONSIDERATIONS

Dispose appropriately in accordance with local/national regulation, or return to our distributors.

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## 14. TRANSPORT INFORMATION

Precaution :                      Avoid leaving at high temperature, condensing, etc.  
    Avoid transportation that may cause collapse or packaging damage.

UN No. and UN classifica-      Not applicable  
tion :

### International regulations

Marine transport :      Comply with IMO regulations.  
Air transport :              Comply with ICAO/IATA regulations.

### National regulations

Marine transport :      Comply with Ship Safety Law.  
Air transport :              Comply with Aviation Law.

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## 15. REGULATORY INFORMATION

No data available.

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## 16. OTHER INFORMATION

\* This safety data sheet was prepared on the basis of some literature/documents. However, be extra careful when handling since it does not necessarily cover all the information.

The description for physical, chemical function and hazardous toxicity, etc. is given only for reference purposes and, therefore, does not provide any warranty. The stated cautions are for normal handling only. In case of special handling required, take sufficient safety measures for intended use/usage.

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