

## ALUMINA IRIDIUM

Version 1.0      Revision Date: 10/23/2020      SDS Number: 000000261508      Date of last issue: -  
Date of first issue: 10/23/2020

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**SECTION 1. IDENTIFICATION**

Product name : ALUMINA IRIDIUM  
Product code : 000000000050002367 000000000050002367  
Other means of identification : No data available

**Manufacturer or supplier's details**

Company name of supplier : MBSCS Canada, Inc.  
Address : 7111 Syntex Drive, 3rd Floor  
Mississauga ON L5N 8C3  
Emergency telephone : ChemTel: +1-813-248-0585;

**Recommended use of the chemical and restrictions on use**


Recommended use : Product for construction chemicals  
Restrictions on use : Reserved for industrial and professional use.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the Hazardous Products Regulations**

Specific target organ toxicity : Category 1 (Lung)  
- repeated exposure (Inhalation)

**GHS label elements**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H372 Causes damage to organs (Lung) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**  
P260 Do not breathe dust or mist.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash face, hands and any exposed skin thoroughly after handling.

**Response:**  
P314 Get medical advice/ attention if you feel unwell.

**Disposal:**

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P501 Dispose of contents/container to appropriate hazardous waste collection point.

**Other hazards**

No data available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Components**

| Chemical name              | CAS-No.    | Concentration (% w/w) |
|----------------------------|------------|-----------------------|
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | >= 25 - < 75          |
| Limestone                  | 1317-65-3  | >= 1 - < 15           |
| Mica-group minerals        | 12001-26-2 | >= 1 - < 5            |
| Titanium dioxide           | 13463-67-7 | >= 0 - < 3            |

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Show this material safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : After contact with skin, wash immediately with plenty of water and soap.  
 Under no circumstances should organic solvent be used.  
 If irritation develops, seek medical attention.
- In case of eye contact : Flush eyes with water as a precaution.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.  
 Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Causes damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray

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- Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : See SDS section 10 - Stability and reactivity.
- Hazardous combustion products : harmful vapours  
nitrogen oxides  
fumes/smoke  
carbon black  
carbon oxides
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Do not breathe vapour/aerosol/spray mists.  
Wear eye/face protection.  
If exposed to high vapour concentration, leave area immediately.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene and safety practice.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.
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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

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- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.  
 Protect from direct sunlight.
- Materials to avoid : No applicable information available.
- Recommended storage temperature : 0 °C
- Further information on storage stability : Minimum storage temperature:

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components          | CAS-No.    | Value type (Form of exposure)   | Control parameters / Permissible concentration | Basis                          |
|---------------------|------------|---------------------------------|--|--------------------------------|
| Limestone           | 1317-65-3  | REL value (Respirable)          | 5 mg/m <sup>3</sup>                            | NIOSH                          |
|                     |            | REL value (Total)               | 10 mg/m <sup>3</sup>                           | NIOSH                          |
|                     |            | PEL (Respirable fraction)       | 5 mg/m <sup>3</sup>                            | 29 CFR 1910.1000 (Table Z-1)   |
|                     |            | PEL (Total dust)                | 15 mg/m <sup>3</sup>                           | 29 CFR 1910.1000 (Table Z-1)   |
|                     |            | TWA value (Respirable fraction) | 5 mg/m <sup>3</sup>                            | 29 CFR 1910.1000 (Table Z-1-A) |
|                     |            | TWA value (Total dust)          | 15 mg/m <sup>3</sup>                           | 29 CFR 1910.1000 (Table Z-1-A) |
|                     |            | TWA                             | 10 mg/m <sup>3</sup>                           | CA AB OEL                      |
|                     |            | TWAEV (total dust)              | 10 mg/m <sup>3</sup>                           | CA QC OEL                      |
|                     |            | TWA (Total dust)                | 10 mg/m <sup>3</sup>                           | CA BC OEL                      |
|                     |            | TWA (respirable dust fraction)  | 3 mg/m <sup>3</sup>                            | CA BC OEL                      |
|                     |            | STEL                            | 20 mg/m <sup>3</sup>                           | CA BC OEL                      |
| Mica-group minerals | 12001-26-2 | TWA value (Respirable fraction) | 3 mg/m <sup>3</sup>                            | ACGIHTLV                       |
|                     |            | REL value                       | 3 mg/m <sup>3</sup>                            | NIOSH                          |

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|----------------------------|------------|-------------------------------------|--|--------------------------------|
|                            |            | (Respirable)                        |  |                                |
|                            |            | TWA value (Respirable dust)         | 3 mg/m3  | 29 CFR 1910.1000 (Table Z-1-A) |
|                            |            | TWA value                           | 20 millions of particles per cubic foot of air | 29 CFR 1910.1000 (Table Z-3)   |
|                            |            | TWA (Respirable)                    | 3 mg/m3  | CA AB OEL                      |
|                            |            | TWA (Respirable)                    | 3 mg/m3  | CA BC OEL                      |
|                            |            | TWAEV (respirable dust)             | 3 mg/m3  | CA QC OEL                      |
|                            |            | TWA (Respirable particulate matter) | 3 mg/m3  | ACGIH                          |
| Titanium dioxide           | 13463-67-7 | TWA value                           | 10 mg/m3                                       | ACGIHTLV                       |
|                            |            | PEL (Total dust)                    | 15 mg/m3                                       | 29 CFR 1910.1000 (Table Z-1)   |
|                            |            | TWA value (Total dust)              | 10 mg/m3                                       | 29 CFR 1910.1000 (Table Z-1-A) |
|                            |            | TWA                                 | 10 mg/m3                                       | CA AB OEL                      |
|                            |            | TWA (Total dust)                    | 10 mg/m3                                       | CA BC OEL                      |
|                            |            | TWA (respirable dust fraction)      | 3 mg/m3  | CA BC OEL                      |
|                            |            | TWAEV (total dust)                  | 10 mg/m3                                       | CA QC OEL                      |
|                            |            | TWA                                 | 10 mg/m3 (Titanium dioxide)                    | ACGIH                          |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA value (Respirable fraction)     | 0.025 mg/m3                                    | ACGIHTLV                       |
|                            |            | TWA value                           | 0.05 mg/m3 (Respirable dust)                   | 29 CFR 1910.1001-1050          |
|                            |            | OSHA Action level                   | 0.025 mg/m3 (Respirable dust)                  | 29 CFR 1910.1001-1050          |
|                            |            | REL value (Respirable dust)         | 0.05 mg/m3                                     | NIOSH                          |
|                            |            | TWA (Respirable particulates)       | 0.025 mg/m3                                    | CA AB OEL                      |
|                            |            | TWA (Respirable fraction)           | 0.1 mg/m3                                      | CA ON OEL                      |
|                            |            | TWAEV                               | 0.1 mg/m3                                      | CA QC OEL                      |

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|----------------------------|------------|-------------------------------------|---|-----------------------|
|                            |            | (respirable dust)                   |   |                       |
|                            |            | TWA (Respirable)                    | 0.025 mg/m <sup>3</sup> (Silica)          | CA BC OEL             |
|                            |            | TWA (Respirable particulate matter) | 0.025 mg/m <sup>3</sup> (Silica)          | ACGIH                 |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA value (Respirable fraction)     | 0.025 mg/m <sup>3</sup>                   | ACGIHTLV              |
|                            |            | TWA value                           | 0.05 mg/m <sup>3</sup> (Respirable dust)  | 29 CFR 1910.1001-1050 |
|                            |            | OSHA Action level                   | 0.025 mg/m <sup>3</sup> (Respirable dust) | 29 CFR 1910.1001-1050 |
|                            |            | REL value (Respirable dust)         | 0.05 mg/m <sup>3</sup>                    | NIOSH                 |
|                            |            | TWA (Respirable particulates)       | 0.025 mg/m <sup>3</sup>                   | CA AB OEL             |
|                            |            | TWA (Respirable fraction)           | 0.1 mg/m <sup>3</sup>                     | CA ON OEL             |
|                            |            | TWAEV (respirable dust)             | 0.1 mg/m <sup>3</sup>                     | CA QC OEL             |
|                            |            | TWA (Respirable)                    | 0.025 mg/m <sup>3</sup> (Silica)          | CA BC OEL             |
|                            |            | TWA (Respirable particulate matter) | 0.025 mg/m <sup>3</sup> (Silica)          | ACGIH                 |
| crystalline silica         | 14808-60-7 | TWA value (Respirable fraction)     | 0.025 mg/m <sup>3</sup>                   | ACGIHTLV              |
|                            |            | REL value (Respirable dust)         | 0.05 mg/m <sup>3</sup>                    | NIOSH                 |
|                            |            | TWA value                           | 0.05 mg/m <sup>3</sup> (Respirable dust)  | 29 CFR 1910.1001-1050 |
|                            |            | OSHA Action level                   | 0.025 mg/m <sup>3</sup> (Respirable dust) | 29 CFR 1910.1001-1050 |
|                            |            | TWA (Respirable particulates)       | 0.025 mg/m <sup>3</sup>                   | CA AB OEL             |
|                            |            | TWA (Respirable fraction)           | 0.1 mg/m <sup>3</sup>                     | CA ON OEL             |
|                            |            | TWAEV                               | 0.1 mg/m <sup>3</sup>                     | CA QC OEL             |

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|--|--|-------------------------------------|----------------------------------|-----------|
|  |  | (respirable dust)                   |                                  |           |
|  |  | TWA (Respirable)                    | 0.025 mg/m <sup>3</sup> (Silica) | CA BC OEL |
|  |  | TWA (Respirable particulate matter) | 0.025 mg/m <sup>3</sup> (Silica) | ACGIH     |

**Engineering measures** : No applicable information available.

**Personal protective equipment**

Respiratory protection : Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Do not inhale gases/vapours/aerosols.  
Avoid contact with the skin, eyes and clothing.  
Avoid exposure - obtain special instructions before use.  
Handle in accordance with good building materials hygiene and safety practice.  
Wearing of closed work clothing is recommended.

Hygiene measures : Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : highly viscous

Color : off-white

Odor : ammonia-like, slight odour

Odor Threshold : No data available

pH : 9 - 10

Melting point : No applicable information available.

Freezing point : No applicable information available.

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Boiling point : No applicable information available.

Flash point : does not flash

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Upper explosion limit / Upper flammability limit : No applicable information available.

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No data available

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : 1.9 - 2.25 g/cm<sup>3</sup>

Solubility(ies)

    Water solubility : soluble

    Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : No applicable information available.

Autoignition temperature : No data available

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity

    Viscosity, dynamic : No applicable information available.

    Viscosity, kinematic : No applicable information available.

Sublimation point : No applicable information available.

Molecular weight : No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.



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|                                  |   |  |
|----------------------------------|---|--|
| Conditions to avoid              | : | See SDS section 7 - Handling and storage.  |
| Incompatible materials           | : | Strong acids<br>Strong bases<br>Strong oxidizing agents<br>Strong reducing agents  |
| Hazardous decomposition products | : | No hazardous decomposition products if stored and handled as prescribed/indicated. |

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : Remarks: No applicable information available.

Acute dermal toxicity : Remarks: No applicable information available.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Causes damage to organs (Lung) through prolonged or repeated exposure if inhaled.

**Aspiration toxicity**

Not classified based on available information.

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**Product:**

No aspiration hazard expected.

**Further information****Product:**

Remarks : No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability****Components:****Quartz (SiO<sub>2</sub>):**

Biodegradability : Remarks: Not applicable

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****TDG**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****The ingredients of this product are reported in the following inventories:**

DSL : On the inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)

29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000

29 CFR 1910.1000 (Table Z-3) : OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000

29 CFR 1910.1001-1050 : OSHA - Specifically Regulated Substances (29 CFR 1910.1001-1050)

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA ON OEL : Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.

CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)

29 CFR 1910.1000 (Table Z-1-A) / TWA value : Time Weighted Average (TWA):

29 CFR 1910.1000 (Table Z-1) / PEL : Permissible exposure limit

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29 CFR 1910.1000 (Table Z-3) / TWA value : Time Weighted Average (TWA):

29 CFR 1910.1001-1050 / OSHA Action level : OSHA Action level:

29 CFR 1910.1001-1050 / TWA value : Time Weighted Average (TWA):

ACGIH / TWA : 8-hour, time-weighted average

ACGIH TLV / TWA value : Time Weighted Average (TWA):

CA AB OEL / TWA : 8-hour Occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average

CA BC OEL / STEL : short-term exposure limit

CA ON OEL / TWA : Time-Weighted Average Limit (TWA)

CA QC OEL / TWAEV : Time-weighted average exposure value

NIOSH / REL value : Recommended exposure limit (REL):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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ing the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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