

## Safety Data Sheet

### 1. Identification of the substance/preparation and company

#### 1.1 Product details

Trade name : Dry molding carbon filter 「3DW1-B600」

### 2. Hazards identification

GHS Classification : Skin corrosion/irritation: Category 1  
 Eye damage/Eye irritation: Category 2A  
 Acute toxicity-Oral: Category 3

Pictogram



**Danger**

Hazard Statements : Causes serious eye irritation  
 May be harmful if swallowed  
 May cause an allergic skin reaction

Precautionary Statements : Avoid release to the environment if this is not the intended use.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Do not eat, drink or smoke when using this product.  
 Use personal protective equipment as required.  
 Wash hands thoroughly after handling.  
 Collect spillage.  
 Get medical attention/advice if you feel unwell. .  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.  
 Store locked up.  
 Dispose of contents/container to a located point (in accordance with local/regional/national/international regulation).

### 3. Composition/information on ingredients

|                            |                    |                                         |                  |                          |
|----------------------------|--------------------|-----------------------------------------|------------------|--------------------------|
| Chemical Name and Synonyms | : Activated Carbon | : Polyethylene                          | : Silica gel     | : Palladium(II) Chloride |
| Formula                    | : C                | : $\text{-(CH}_2\text{-CH}_2\text{)}_n$ | : $\text{SiO}_2$ | : $\text{PdCl}_2$        |
| CAS No.                    | : 7440-44-0        | : -                                     | : 63231-67-4     | : 7647-10-1              |
| UN No.                     | : Non              | : -                                     | : Non            | : Non                    |
|                            | -Correspondence    |                                         | -Correspondence  | -Correspondence          |

|                                          |                                                                                                                                                                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. First aid measures                    |                                                                                                                                                                                    |
| Eye Contact                              | : Flush with plenty of water for at least 15 minutes and medical care immediately.                                                                                                 |
| Skin Contact                             | : Wash with soap and large quantities of water.                                                                                                                                    |
| Inhalation                               | : Keep the fresh air and warm condition and emergency care. In case of cyanosis, immediate artificial breathing. When inhale the dust of Activated Carbon, rinse mouth with water. |
| If Swallowed                             | : Vomit immediately and wash out the mouth completely, Emergency medical care should be required.                                                                                  |
| Effect of Overexposure                   | : Avoid exposure to dust levels above 2.9 mg per cubic meter. Long-term and low-level exposure to the dust may bring about the pneumoconiosis.                                     |
| 5. Fire-fighting measures                |                                                                                                                                                                                    |
| Extinguishing Media                      | : Foam, Multipurpose Dry Chemical and water Type Extinguishers.                                                                                                                    |
| Special Fire Fighting Procedure          | : None                                                                                                                                                                             |
| Unusual Fire and Explosion Hazards       | : Contact with Strong oxidizers such as Ozone, Liquid Oxygen, Permanganate, etc. may result in fire.                                                                               |
| 6. Accidental release measures           |                                                                                                                                                                                    |
| Environmental precautions                |                                                                                                                                                                                    |
| Methods for cleaning up/taking up        | Sweeping or Vacuuming (Spills can create nuisance dust and house keeping problems.)                                                                                                |
| 7. Handling and storage                  |                                                                                                                                                                                    |
| Ventilation                              | : Local exhaust is recommended,                                                                                                                                                    |
| Storage precaution                       | : Packaged activated carbon is not resistant to weather or outside storage and requires indoor storage facilities.                                                                 |
| 8. Exposure controls/personal protection |                                                                                                                                                                                    |
| Protective equipment                     | : no special requirements                                                                                                                                                          |
| Protective gloves                        | : Rubber gloves recommended                                                                                                                                                        |
| Eye protection                           | : Goggles recommended                                                                                                                                                              |
| Respiratory protection                   | : NIOSH Approved particular filter respirator is recommended if excessive dust is generated.                                                                                       |
| 9. Physical and chemical properties      |                                                                                                                                                                                    |
| Boiling point (°C)                       | : N/A                                                                                                                                                                              |
| Melting point (°C)                       | : 680°C (Palladium(II) Chloride)                                                                                                                                                   |
| Vapor pressure (mmHg)                    | : N/A                                                                                                                                                                              |
| Vapor density (Air=1)                    | : N/A                                                                                                                                                                              |
| Solubility in water                      | : Insoluble                                                                                                                                                                        |
| Specific gravity (H <sub>2</sub> O=1)    | : 1.8 - 2.1                                                                                                                                                                        |
| Percent volatile by volume (%)           | : N/A                                                                                                                                                                              |
| Flash point                              | : N/A                                                                                                                                                                              |
| Auto-Ignition Point (°C)                 | : N/A                                                                                                                                                                              |
| Appearance and Odor                      | : Bluish-black granular solid, odorless                                                                                                                                            |

|                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Stability and reactivity                                                                                               |                                                                                                                                                                                                                                                                                                                                                              |
| Stability                                                                                                                  | : Stable                                                                                                                                                                                                                                                                                                                                                     |
| Incompatibility(Materials to Avoid)                                                                                        | : Strong Oxidizers such as Ozone, Liquid Oxygen, Permanganate, Nitric Acid etc.                                                                                                                                                                                                                                                                              |
| Hazardous Polymerization                                                                                                   | : May not occur.                                                                                                                                                                                                                                                                                                                                             |
| Conditions to Avoid                                                                                                        | : Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces.                                                                                                                                                                                                                     |
| Hazardous Decomposition Products                                                                                           | : Contact with strong inorganic acids such as Nitric Acid and Sulfuric Acid may generate hazardous gases such as NO <sub>2</sub> and SO <sub>2</sub> .                                                                                                                                                                                                       |
| 11. Toxicological information                                                                                              |                                                                                                                                                                                                                                                                                                                                                              |
| Acute toxicity                                                                                                             | : oral(rat) LD <sub>50</sub> 2704mg/Kg (Palladium(II) Chloride)                                                                                                                                                                                                                                                                                              |
| 12. Ecological information                                                                                                 |                                                                                                                                                                                                                                                                                                                                                              |
| Recommended disposal                                                                                                       | : Activated carbons that have adsorbed organic liquids and gases may lower the ignition point and must be checked for ignition point before disposal. Disposal of in accordance with local, state, and federal regulation. Pay special attention not to flow out to the river, water supply system, sewerage, sea. If possible, regeneration is recommended. |
| 13. Disposal considerations                                                                                                |                                                                                                                                                                                                                                                                                                                                                              |
| In case of landfill, ask for permission in accordance with regulations of industrial discharges and clean in your country. |                                                                                                                                                                                                                                                                                                                                                              |
| In case of incineration on the conventional way, adapt to the regulations on air pollution.                                |                                                                                                                                                                                                                                                                                                                                                              |
| 14. Transport information                                                                                                  |                                                                                                                                                                                                                                                                                                                                                              |
| Cover the product with a hood or a sheet to avoid rain.                                                                    |                                                                                                                                                                                                                                                                                                                                                              |
| 15. Regulatory information                                                                                                 |                                                                                                                                                                                                                                                                                                                                                              |
| Follow all regulations in your country.                                                                                    |                                                                                                                                                                                                                                                                                                                                                              |
| 16. Other information                                                                                                      |                                                                                                                                                                                                                                                                                                                                                              |

Date prepared : Jan 1, 2017