



NIPPON VALQUA INDUSTRIES, LTD.

Safety Data Sheet

1. Identification of the Product and of the Company

Product Name	BLACKTIGHT®
Product Code	Valqua No. 6590, 6591, 6592, 6596
Company	NIPPON VALQUA INDUSTRIES, LTD.
Address	1-1, Osaki 2-chome, Shinagawa-ku, 141-6024 Tokyo, Japan
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Created	May 15, 1998
Revised	August 23, 2016

The product is a spiral-wound gasket made with VALQUAFOIL® filler. Product variants are available with metal inner and outer rings and branches so that they fit the intended target flange.

2. Hazards Identification

The products take the form of a solid during normal handling and are not subject to GHS classification as they do not exist in powder form. However, they are subject to management as described below due to the possibility that the VALQUAFOIL® filler may scatter under certain circumstances, for example when a gasket that has adhered to a flange is removed after an extended period of use.

GHS Classification

Physical and Chemical Hazards	Not applicable (classification not possible, not applicable for classification, not classified)
Health Hazards	Not applicable (classification not possible, not applicable for classification, not classified)
Environmental Hazards	Not applicable (classification not possible, not applicable for classification, not classified)
GHS Label Elements	
Pictograms/Symbols	No pictograms corresponding to GHS standards
Signal Words	No signal words corresponding to GHS standards
Hazard Statements	No hazard statements corresponding to GHS standards
Other Hazards	<ul style="list-style-type: none"> • Inhalation of large quantities of dust over an extended period of time may affect the respiratory organs. • Wash hands thoroughly after handling. • Dispose of contents and container in accordance with applicable international, national, prefectural, or local (city, town, or village) regulations.

3. Composition/Information on Ingredients

Single Product or Mixture	Mixture (composite composition)
Ingredients	Hoops, inner rings, and outer rings: Typically fabricated from a metal such as carbon steel (CS) or stainless steel. VALQUAFOIL® filler: Black lead

Ingredients of VALQUAFOIL® Filler

Ingredient	CAS Number	PRTR	Official Gazette Reference Number	Concentration (wt %)
Black lead	7782-42-5	Not applicable	—	90
Phosphorus compound	—	Not applicable		10

4. First-Aid Measures

- | | |
|--------------|--|
| If Inhaled | <ul style="list-style-type: none"> In the event of inhalation of dust from the product, move immediately to a location with fresh air. Seek medical attention in the event of respiratory abnormality. |
| If On Skin | <ul style="list-style-type: none"> Rinse the affected area immediately with soap and running water. |
| If In Eyes | <ul style="list-style-type: none"> Do not rub the eyes. Rinse immediately with plenty of water. Seek ophthalmologist's attention in the event of foreign-body sensation or pain. |
| If Swallowed | <ul style="list-style-type: none"> Induce vomiting and immediately rinse the mouth thoroughly with water. Seek medical attention in the event of any other unusual condition. |

5. Fire-Fighting Measures

Extinguishing Media	Standard extinguishing agent such as water, carbon dioxide gas, or powder
Special Firefighting Procedures	Standard firefighting procedures
Protection of Firefighters	During firefighting work, use a suitable respirator and protective clothing depending on the fire.

6. Accidental Release Measures

Although no special measure is required for solid materials, collect cutting powder carefully into an empty container, for example, using a vacuum, but not a broom, to reduce its scatter to a minimum.

7. Handling and Storage

Handling

Technical Measures	Wear protective gear and take the equipment-related steps described in "8. Exposure Controls/Personal Protection."
Local Exhaust	Ventilate the local area where the product is being handled or the entire facility as described in "8. Exposure Controls/Personal Protection."
General Ventilation	
Precautions for Safe Handling	<ul style="list-style-type: none"> Do not inhale or ingest the product. Wash hands thoroughly after handling the product.

Storage

Technical Measures	No special technical measures are needed.
Incompatibilities	See "10. Stability and Reactivity."
Conditions for Safe Storage	<ul style="list-style-type: none"> Do not bend or twist the product, or submit it to compressive or tensile forces perpendicular to its face. Keep the product indoors, at normal temperature and in ambient atmosphere. Store it avoiding moisture and damage. Do not use fire. Avoid coexistence or contact with strong oxidant.
Safe Materials for Containers/Packaging	It is recommended to store the product in its original container and packaging.

8. Exposure Controls/Personal Protection

Control Limits/Exposure Limits:

The following table lists control limits and exposure limits for each ingredient:

Ingredients	Control Limits	Exposure Limits	
		Japan Society for Occupational Health	ACGIH
Black lead	No data	Class 1 dust Respirable dust: 0.5 mg/m ³ Total dust: 2 mg/m ³	TWA 2 mg/m ³ respirable fraction all forms except graphite fibers

Appropriate Engineering Controls

Install a local exhaust system.

Protective Gear

Respiratory Protection

Wear dust mask.

Eye Protection

Wear dust-proof glasses.

Skin and Body Protection

Wear gloves and long-sleeved work clothes.

Hygiene Measures

Wash hands thoroughly after handling the product.

9. Physical and Chemical Properties

Appearance

Product variants have inner and outer metal rings and metal branches so that they fit the intended target flange. The part of VALQUAFOIL® filler is black solid.

Physical and Chemical Properties of VALQUAFOIL® filler

Odor	None.
Melting Point	Not at normal pressure
Boiling Point	Not at normal pressure
Vapor Pressure	Negligible at room temperature
Solubility	Black lead: Insoluble in water and organic solvent Phosphoric acid: Readily soluble in water and alcohol
Flash Point	None
Ignition Point	None
Conductivity	Conducting

10. Stability and Reactivity

Oxidation Nature	None (room temperature)
Stability	Stable under normal handling condition at normal temperature
Possibility of Hazardous Reactions	No hazardous reactions under normal condition
Conditions to Avoid	Prevent dust generation and diffusion
Incompatible Materials	None
Hazardous Decomposition Products	None

11. Toxicological Information

Information on VALQUAFOIL® filler

Acute Toxicity	No data
Skin Corrosion/Irritation	No data
Serious Eye Damage/	No data

Eye Irritation	
Respiratory Sensitization	No data
Skin Sensitization	No data
Germ Cell Mutagenicity	No data
Carcinogenicity	No data
Reproductive Toxicity	No data
STOT/Systemic Toxicity – Single Exposure	No data
STOT/Systemic Toxicity – Repeated Exposure	No data
Aspiration Hazard	No data

12. Ecological Information

Ecotoxicity	Phosphorus compounds: Soluble in water, producing phosphate ions Fish toxicity: Lm 96 = 1,000~100 (mass ppm) Causes eutrophication if discharged into waters because of contained phosphorus
Persistence and Degradability	No data
Bioaccumulative Potential	No data
Mobility in Soil	No data

13. Disposal Considerations

Disposal of Waste Residues	Comply with all applicable regulations and local standards when disposing of the product. Contract disposal to an industrial waste treatment company that has been authorized by the governor of the prefecture in question or other governmental authority, or, if applicable, to a local, government-run organization that performs such treatment and disposal. If outsourcing disposal of waste, ensure that the contractor has been provided with adequate information concerning the dangers and hazards posed by the product.
Contaminated Containers and Packaging	Contract disposal to a specialized waste treatment company that has been authorized by the governor of the prefecture in question.

14. Transport Information

International Regulations	Not applicable
Japanese Regulations	No laws or regulations apply to transport of the product.
Specific Safety Measures	Transport of the product is not subject to any special precautions. However, avoid exposing the product to water or handling it roughly so as not to damage its packaging or otherwise compromise its quality.

15. Regulatory Information

PRTR Law, Japan	Not applicable
Poisonous and Deleterious Substances Control Act, Japan	Not applicable
Industrial Safety and Health Act, Japan	Does not qualify as a substance requiring labeling (under the provisions of Article 57-1 of the Act). Does not qualify as a notifiable substance (under the provisions of Article 57-2 Item 1 of the Act).

16. Other Information

None

This safety data sheet has been compiled based on the latest information and data available at the present time. It may be revised as new knowledge comes to light. The precautionary information provided in this safety data sheet applies to normal handling of the product described. Special handling or use of the product should be accompanied by safety measures that are appropriate given the application and method of use. Although the company has exercised all necessary caution in compiling the information provided by this safety data sheet, it makes no guarantee as to the accuracy of the sheet's contents.