

SAFETY DATA SHEET

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Product name	QD6002	
Summary of hazard & toxicity Summary of hazard	GHS classification :	Do not fall into any.
	PRTR	N-methyl-2-pyrrolidone (NMP) <3.0% Class 1 Designated Chemical Substances (No.746) (After April 1st , 2023)
	Other hazard & toxicity :	Contains reproductively toxic 1-methyl-2-pyrrolidone (NMP).
Materials	Single or Mixture :	Mixture
	Chemical name :	Poly-m-phenylene isophthalamide (general name : Meta-aramid fiber) - Cas No. 25765-47-3 - CSCL No. 7-1972 Meta-aramid fiber or meta-aramid fiber including para-aramid fiber - Cas No. non-disclosure N-methyl-2-pyrrolidone (NMP) Content rate < 3.0% - Cas No. 872-50-4 - CSCL No. 5-113 Textile oil agent and other substances
First aid measures	Eye contact :	If fibers enter the eye, flush with water. When eyes feel still uncomfortable or get inflamed, refer for medical attention.
	Skin contact :	Wash with clean water and soap after handling.
	Inhalation :	Move the patient to a place where the air is clean. Obtain medical attention depending on the condition of the patient. Vapor in high density may cause headache, giddiness and nausea. When you inhale high concentration NMP or decomposition product, move the patient to a place where the air is clean. of the patient.
	Ingestion :	Make the patient drink a large quantity of water to induce vomiting, after which medical attention is needed.

Fire fighting measures	<p>Extinguishing measures : Extinguish the fire just as done on common fire. When you burn this product, wear perfect. Since it may generate strong static electricity, place the static eliminator in the required place to protect the human body. them might be harmful and irritative.</p> <p>Extinguishing media : Water, carbon dioxide, bubble extinguisher, powder extinguisher and AFFF(Aqueous Film-Forming Foam) recommended.</p>
Accidental release measures	Sweep up. Never flow out in rivers and public waterway.
Recommended preparation for handling & storage	<p>Handling : (1) To avoid inhalation of fibers and dusts, and contact with eye, wear suitable personal protective equipment such as side-shielded goggle. (2) Avoid heat, flame and fire. (3) Take care not to give physical damage. (4) There will be little NMP produced when you treat it at room temperature. However, if you heat, dye and/or post-process it, NMP might be transpired to the air and/or extracted to solvent. That would cause you inhale it and /or your eyes irritated. Wear appropriate protective suit /glasses at handling. Wash hands after handling. Have good ventilation when you heat it.</p> <p>Storage : (1) Seal up and store in warehouse to avoid sunlight and rain, otherwise this product might be deteriorated. (2) Take care not to pile up too much in order for the product not to get out of shape.</p>
Exposure control/ Personal control	<p>Management measure : Not applicable for any class</p> <p>Density tolerance : Not applicable for any class</p> <p>Personal safety equipment : Wear protective equipment such as dust respirator, safety goggle, safety glove, safety jacket and the etc..</p> <p>Facility : Use ventilator and dust collector to prevent the fiber/dust from flying in the air, and to keep you away from decomposition product. When you heat it, do not use air circulation, but do exhaust ventilation. This is because NMP gas might be produced. When you dye and/or afterprocess this product, treat the wasted water through effluent treatment facility, since NMP might be extracted in the bath.</p>
Physical and chemical properties	<p>Color : Natural white</p> <p>Odor : Minor smell</p> <p>Melting point : Not applicable.</p> <p>Decomposition temperature: about 400 deg. C (Meta-aramid fiber)</p> <p>Flash point: Not applicable.</p> <p>Ignition point: Not applicable.</p>

Stability & Reactivity	<p>Self reactivity : Nothing</p> <p>Oxidizing : Nothing</p> <p>Dust explosion : Nothing</p> <p>Explosion limit : Nothing</p> <p>Stability : Stable at normal temperature</p> <p>Others : Meta-Aramid fiber also start to decompose at about 400 deg. C.. The fiber exposed to UV light for a long time might be changed in quality. Have good ventilation to prevent you from inhaling NMP.</p>
Toxicological information	<p>Acute toxicity: Oral (in the case of NMP): LD50(rat) 4,150mg/kg Based on similar structure or composition</p> <p>Inhalation: It may cause a healthy disorder by inhaling a decomposition product of the fiber, and the fiber oil.</p> <p>Percutaneous: Inflammation of the skin can be caused in a rare.</p> <p>Skin corrosivity: Unknown</p> <p>Skin irritation: It may feel slight stimulation. (In the case of NMP) Fat will be removed even in small quantities. NMP absorbed in skin might cause eczema-type dermatitis.</p> <p>Eye irritation: May have some trouble by fiber, dust and/or decomposition product of fiber oil. (In the case of NMP) Cause stimulation and conjunctivitis.</p> <p>Sensitization: Unknown</p> <p>Specific target organ toxicity / systemic toxicity – single exposure : Unknown</p> <p>Specific target organ toxicity / systemic toxicity – repeated exposure: (In the case of NMP) In the exposure test(inhalation) using the rat, dyspnea, increase in death, pneumonia, skeletal hypoplasia, atrophy of the thymic lymphoid tissue were found.</p> <p>Carcinogenicity: Unknown</p> <p>Mutagenicity: Unknown</p> <p>Teratogenicity: Unknown</p> <p>Reproductive toxicity: (In the case of NMP) Exposure test result by animal shows that it might cause drop of birth rate, low average weight of baby at birth and birth abnormality.</p> <p>Others: Nothing</p>

Ecological information	Biodegradability : Unknown Bioaccumulation : Unknown Fish toxicity : Unknown Other toxicity : This product is inherently nonbiodegradable. When you heat this product , the applied surface treatment agent may evaporate or decompose. When you use water for processing, wastewater needs to be treated according to local designation.
Disposal	Dispose the waste according to the instruction of waste disposer authorized by the government. Disposal in accordance with the local regulation on solid waste disposal.
Transportaion	(1) Protect from psysical damage not to break package. (2) Load steady not to fall down. (3) Avoid use of hooking not to break package. (4) Take care that shipment would not get wet or exposed to sunlight.
Regulatory information	Chemical Substances Control Law : 7-1972 PRTR: Class 1 Designated Chemical Substances (No.746) (After April 1st , 2023) EUROPE REACH This product contains $\geq 0.1\%$ of NMP listed in "SVHC candidate list of Substances of Very High Concern for authorization as of June 20, 2011.
Remarks This safety data sheet is based on generally available documents and data, subject to the ordinary handling in industrial usage. It is not necessarily perfect information on hazard and/or safety, and user is asked to please take enough care in handling the product by themselves. The cautions mentioned as above aim to mention the ordinary handling of the product, not to guarantee the security. Therefore, if the product mentioned in this sheet is handled by any special method, user is asked to take appropriate safety measure.	

Caution : Do not use this product for medical applications involving implantation in the human body and/or permanently direct contact with body fluids.