

SAFETY DATA SHEET

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SDS No.M-4577

Item No:

2108193190 WA 400 M 8 V 76R 80.0×6.4×9.6

NCI I/# 73208

2108247990 WA 600 M 8 V 76R 80.0×6.4×9.6

NCI I/# 73247

Section 1 - Identification

Manufacturer's Name	Noritake Co., Limited
Address (Street, Ward, City, Pref., Zip, Country)	3 - 1 - 36 Noritake Shin-Machi, Nishi-ku, Nagoya, Aichi, 451- 8501 Japan
Trade Name	Vitrified Ceramic Grinding Wheel
Emergency Telephone No.	81 - 52 - 561 - 9835

Section 2-Hazards Identification

Human health	When you inhale at the fine particle which occurs during grind work long, there is a fear that you have a pneumoconiosis.
Environment	A fine particle occurs during grind work, so there is a fear that the operational society is polluted.

GHS classification: Please refer to the attached sheet.

Section 3- Composition/Information on ingredients

Distinction of chemicals and mixture : mixture

Components	Contents (by weight)	CAS Number
1)Aluminium oxide (Al ₂ O ₃)	79~89 %	1344-28-1
2)Silicon dioxide (SiO ₂)	9~13 %	-
3)Diiron(III) trioxide (Fe ₂ O ₃)	Less than 1 %	1309-37-1
4)Glass hardening thing · Others	1 % or more	-

※ Only show the ingredients which are required by Japanese domestic laws. The components which are related to the technical information and exempt from the laws are NOT included.

Section 4-First-Aid measures

Inhalation	If a fine particle is inhaled, please move to the fresh aerial place immediately, gargle with water and wash the throat. If necessary, please have doctor's medical treatment.
Skin contact	When material stuck to skin, please scour with soapy water after the work.
Eye contact	If a fine particle enters eyes, please wash eyes by pure running water immediately. Please don't hold and rub it hard at the same time. If necessary, please have doctor's medical treatment.
Ingestion	Please make person drink many water and make vomit. If necessary, please have doctor's medical treatment.

Section 5 – Fire fighting measures

Flash Point (Method Used)	N.A.
Flammable Limits	LEL : N.A. UEL : N.A.
Extinguishing Media	N.A.
Special Fire Fighting Procedures	N.A.
Unusual Fire and Explosion Hazards	N.A.

Section 6 – Accidental release measures

Personal precautions	When dust entered eyes, wash with water attentively for several minutes.
Protection equipment and emergency disposal	When a fine particle enters eyes and inhales a fine particle, protection equipment (safety glasses and protection against dust mask, etc.) is put on. After treating, wash a hand.
Environmental precautions	Not relevant because of the use.
Methods for cleaning up	Not relevant.

Section 7 – Handling and storage

Technical measures	Possess decided safety device.
Local exhaust·The whole exhaust	Dust occurs during work, so do a local exhaust or the whole exhaust.
The container packing material	Use the material which absorbs the impact when treating.
Technical measures for safe storage	Install an arrangement shelf and keep.
Storage conditions	Room temperature and the thing kept at the normal humidity.

Section 8 – Exposure controls/Personal protection

Respiratory equipment	The dust collector is set up as a dust measures, or the entire exhaust is executed if necessary.
Protection equipment of the respiratory organ.	During dust - rasing work : Dust mask / respirator.
Hand protection	Wear protective gloves.
Eye protection	Risk of contact : Wear goggles / face shield
Protection clothes	Work clothes of some material of the fire proof flower are put on.
Environmental Exposure Controls	Not available
Others	Soundproof ear plug, helmet and maintenance shoes, etc.

Section 9 - Physical and Chemical properties

Boiling Point	N.A.	Specific Gravity (H ₂ O = 1)	1.2 - 4.1
Vapor Pressure (mm Hg)	N.A.	Percent Volatile by Weight (%)	N.A.
Vapor Density (Air = 1)	N.A.	Evaporate Rate	N.A.
Solubility in Water	Insoluble (※ 1)	PH	N.A.
Appearance and Odor	Solid / Odorless		

※1 Boron compound and fluoric compound are slightly soluble.

Section 10- Stability and Reactivity

Stability	Unstable : -
	Stable : X
	Conditions To Avoid : -
Incompatibility (Materials To Avoid)	N.A.
Hazardous Decomposition Products	N.A.
Hazardous	May Occur : -
	Conditions To Avoid : -
Polymerization	Will Not Occur : X

Section 11 -Toxicological Information

When an extended period inhales the fine particle which occurs at the time of grind work, there is a fear that the person of working have fear of pneumoconiosis. Please refer to an attached sheet(Allocation of label elements).

Section 12 -Ecological information

Mobility	Not relevant
Degradability	Not relevant
Bioaccumulative potential	No data available on bioaccumulation.
Other adverse effects	In cut off and grind etc, grind waste is discharged a little.

Section 13-Disposal considerations

Dispose of waste and residues in accordance with each country requirements.

Section 14-Transport information

The product is not covered by international regulation on the transport of dangerous goods.

Section 15-Regulatory information

Observe local / regional / national / international regulations.

Section 16-Other Information

We referred to the ACGIH material.

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* N.A. means Not Applicable *

Chemical substance name	Aluminium oxide	Silicon dioxide	Diiron(III) trioxide
Physical Hazards			
Explosives	Not applicable	Not applicable	Not applicable
Flammable gases	Not applicable	Not applicable	Not applicable
Aerosols	Not applicable	Not applicable	Not applicable
Oxidizing gases	Not applicable	Not applicable	Not applicable
Gases under pressure	Not applicable	Not applicable	Not applicable
Flammable liquids	Not applicable	Not applicable	Not applicable
Flammable solids	Not classified	Not classified	Not classified
Self-reactive substances and mixtures	Not applicable	Not applicable	Not applicable
Pyrophoric liquids	Not applicable	Not applicable	Not applicable
Pyrophoric solids	Not classified	Not classified	Not classified
Self-heating substances and mixtures	Not classified	Not classified	Not classified
Substances and mixtures, which in contact with water, emit flammable gases	Not classified	Not classified	Not classified
Oxidizing liquids	Not applicable	Not applicable	Not applicable
Oxidizing solids	Not classified	Classical not possible	Classical not possible
Organic peroxides	Not applicable	Not applicable	Not applicable
Corrosive to metals	Classical not possible	Classical not possible	Classical not possible
Health Hazards			
Acute toxicity:Oral	Not classified	Classical not possible	Classical not possible
Acute toxicity:Dermal	Classical not possible	Classical not possible	Classical not possible
Acute toxicity:Inhalation	Not applicable	Not applicable	Not applicable
Acute toxicity:Vapors	Classical not possible	Not applicable	Classical not possible
Acute toxicity:Dusts	Classical not possible	Classical not possible	Classical not possible
Acute toxicity:Mists	Classical not possible	Classical not possible	Classical not possible
Skin corrosion/irritation	Classical not possible	Classical not possible	Category 2
Serious eye damage/eye irritation	Classical not possible	Classical not possible	Category 1
Respiratory sensitization	Classical not possible	Classical not possible	Classical not possible
Skin sensitization	Classical not possible	Classical not possible	Classical not possible
Germ cell mutagenicity	Classical not possible	Category 2	Classical not possible
Carcinogenicity	Not classified	Category 1A	Not classified
Reproductive toxicity	Classical not possible	Classical not possible	Classical not possible
Specific target organ toxicity–single exposure	Category 3 (Respiratory tract irritation)	Classical not possible	Category 3 (respiratory tract irritation)
Specific target organ toxicity–repeated exposure	Category 1 (inhalation lung)	Category 1 (respiratory system/kidney/immune system)	Category 1 (respiratory system)
Aspiration hazard	Classical not possible	Classical not possible	Classical not possible
Environmental Hazards			
Short-term(Acute)Hazardous to the aquatic environment	Classical not possible	Not classified	Classical not possible
Long-term(Chronic)Hazardous to the aquatic environment	Classical not possible	Classical not possible	Classical not possible
Hazardous to the ozone layer	Classical not possible	Classical not possible	Classical not possible
Hazard Communication Standard(HCS)2012			
Pyrophoric gases	Not classified	Not classified	Not classified
Suffocation pill	Classical not possible	Classical not possible	Classical not possible
Flammable dust	Classical not possible	Classical not possible	Classical not possible
GHS label elements			
Symbol			
Signal word	Danger	Danger	Danger
Hazard statement	May cause respiratory irritation (respiratory tract irritation) Cause damage to organs through prolonged or repeated exposure (Inhalation: lung)	Suspected of causing genetic defects May cause cancer Cause damage to organs through prolonged or repeated exposure (respiratory system, immune system, kidney)	Causes skin irritation Causes serious eye damage May cause respiratory irritation (respiratory tract irritation) Cause damage to organs through prolonged or repeated exposure (respiratory system)