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1. Identification of the product and of the company/undertaking

1.1 Product identifier

Product name: Non-Woven Hand Pads - XX Fine Order Code: YRK-245-2100K

Grit range: Ultra Fine S XS (4635), Ultra Fine S (4630)

Reverse-Side: Plain

1.2 Use of the product

Recommended use:

Non-woven abrasives for grinding/ sanding different materials

1.3 Details of the supplier of the voluntary product information:

Supplier:	York Abrasives	Manufacturer:	sia Abrasives Industries AG
Address:	Wigston		Mühlewiesenstrasse 20
	Leicester		CH-8501 Frauenfeld
	England LE18 2FS		Switzerland
		E-mail:	msds.ch@sia-abrasives.com
Telephone:	+44 (0) 116 288 8000		
Fax:	+44 (0) 116 288 8222		

2. Hazards identification

2.1. Classification

Not applicable
Abrasives are articles and not dangerous substances or mixtures according to Regulation (EC) N° 1272/2008.
See also section 8 and 16.

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements

Abrasives are articles and not dangerous substances or mixtures and therefore no labelling is required according to Regulation (EC) N° 1272/2008.

Signal word: Not applicable

Symbols: Not applicable

Pictograms: Not applicable

Notes to Physician: Not applicable

2.3. Other hazards

Not known.

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3. Composition/information on ingredients

The product contains the following ingredients which are classified according to Regulation (EC) Nr. 1272/2008 or for which a community occupational exposure limit value exists:

Substance	CAS-N° (if available)	REACH Reg. N° (if available)	Conc. (%)	Classification acc. to Regulation (EC) N° 1272/2008 (CLP)	
				Hazard classes/ hazard categories	Hazard statements
Phenolic Resin (cured)	mixture		15.0 - 45.0	Not classified	
Silicon Carbide	409-21-2	206-991-8	35.0 - 65.0	Not classified	
Nylon Fibre	mixture		15.0 - 45.0	Not classified	

(For full text of H-phrases see section 16)

Remark:
No PDMS (silicone-oils) present in this product

4. First aid measures

See also section 8 and 16

4.1. Description of first aid measures

Inhalation: Not possible, due to the form of the product. If dust is inhaled, move person to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

Eye contact: Remove contact lenses if present and easy to do so. Flush eyes thoroughly with large amounts of water, holding eyelids open. If irritation persists, seek medical attention.

Skin contact: Wash skin with soap and water. If irritation or other symptoms develop, seek medical attention.

Ingestion: Not likely, due to the form of the product. In the event of, do not induce vomiting. Rinse mouth with water. Seek medical attention if a large amount is swallowed or if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Not known, but dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs.
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment needed

Not relevant. Treat symptomatically. Immediate medical attention should not be required.

5. Fire fighting measures

5.1. Suitable (and unsuitable) extinguishing media:

In case of fire: Use a fire fighting agent suitable for ordinary combustible material and appropriate for surrounding area such as: water, foam, sand, powder or CO_2

5.2. Special hazards arising from the product

Toxic fumes (CO, CO_2, NOx, HCN, aldehydes, including CH_2O) may occur. Particulate matter and other organic compounds may be formed during combustion. Use respiratory protective equipment.

5.3. Special protective equipment and precautions for fire-fighters

Extinguishing materials should be selected according to the surrounding area.
Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of dust.

6.2. Environmental precautions

Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

6.3. Methods and materials for containment and cleaning up

Carefully collect dry material, avoiding the creation of airborne dust. Place in a suitable container for disposal.

7. Handling and storage

Follow instructions of grinding machine manufacturers and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

7.1. Precautions for safe handling

Avoid breathing dust. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing.
Wear suitable gloves, eye protection and appropriate protective clothing according to the operation.
Wash thoroughly after handling. Consider potential exposure to components of the materials or coatings being processed. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.
Combustible dust could be generated during the normal use of this product. The dust could be explosive if in sufficient concentration with an ignition source.
Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions

7.2. Conditions for safe storage, including any incompatibilities

No special storage required.

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8. Exposure controls/personal protection

8.1. Control parameters

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

Note: Consider also components of base materials and coatings being processed.
Hazardous dust of the workpiece material may be generated during grinding and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration.

Occupational exposure limit values and/or biological limit values

Substance	CAS-N° (if available)	Occupational limit value / PEL – Long term / TWA – mg/m³				Occupational limit value / PEL – Long term / TWA – ml/m³ (ppm)			
		CH	GER	USA NISHO	USA OSHA	CH	GER	USA NISHO	USA OSHA
Phenolic Resin (cured)	mixture	NA	NA	NA	NA	NA	NA	NA	NA
Silicon Carbide	409-21-2	3 a	NA	5 a	5 a	NA	NA	NA	NA
Nylon Fibre	mixture	NA	NA	NA	NA	NA	NA	NA	NA

Substance	CAS-N° (if available)	Occupational limit value / PEL – Short term / STEL – mg/m³				Occupational limit value / PEL – Short term / STEL – ml/m³ (ppm)			
		CH	GER	USA NISHO	USA OSHA	CH	GER	USA NISHO	USA OSHA
Phenolic Resin (cured)	mixture	NA	NA	NA	NA	NA	NA	NA	NA
Silicon Carbide	409-21-2	NA	NA	NA	NA	NA	NA	NA	NA
Nylon Fibre	mixture	NA	NA	NA	NA	NA	NA	NA	NA

Substance	CAS-N° (if available)	Peak limit mg/m³				Source
		CH	GER	USA NISHO	USA OSHA	CH
Phenolic Resin (cured)	mixture	NA	NA	NA	NA	GESTIS
Silicon Carbide	409-21-2	10	NA	10 TD	15 TD	GESTIS
Nylon Fibre	mixture	NA	NA	NA	NA	GESTIS

Abbreviation:
- e: einatembar / inhalable
- a: alveoleongängig/ respirable
- NA: nicht zutrefend/ not applicable

EUROP:
- Longterm: The employee's average airborne exposure in any 8-hour work shift of a 42-hour work week which shall not be exceeded.
- Shortterm: Maximum exposure of four 15min periods per 8 hour shift, with at least 60 minutes between exposure periods

USA
- PEL: Permitted Exposure Limits
- TWA: The employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.
- STEL: Maximum exposure of four 15min periods per 8 hour shift, with at least 60 minutes between exposure periods

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.2.2. Personal Protective Equipment

8.2.1.1. Respiratory protection:

Use respiratory protective equipment, type depends on specific application and material being ground. Consider the potential for exposure to components of the coatings or base material being processed in selecting proper respiratory protection. Refer to OSHA's specific standards for lead, cadmium, etc. where appropriate. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134 and ANSI Z88.2 or other applicable regulations and standards and good Industrial Hygiene practice.

8.2.1.2. Hand protection:

Wear protective gloves to avoid skin abrasion when handling type depends on specific application and material being ground.

8.2.1.3. Eye protection:

Wear protective goggles with side shields or face shield type depends on specific application and material being ground. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. Select and use eye/face protection to prevent contact based on the results of an exposure assessment.

8.2.1.4. Hearing protection:

Use hearing protection type depends on specific application and material being ground.

8.2.1.5. Body protection:

Use protective clothing type depends on specific application and material being ground.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form	non-woven
Product Appearance	non-woven
Odor, Color, Grade	no odor/ grey-black / ultra fine - medium
Odor threshold	Not Applicable
pH	Not Applicable
Melting point	Not Applicable
Boiling Point	Not Applicable
Flash Point	Not Applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Specific Gravity	Not Applicable
Solubility In Water	Not Applicable
Solubility- non-water	Not Applicable
Partition coefficient: n-octanol/ water	Not Applicable
Autoignition temperature	Not Applicable
Decomposition temperature	Not Applicable
Viscosity	Not Applicable

9.2. Other information

None.

10. Stability and reactivity

10.1. Reactivity

Product is stable when handled or stored correctly.

10.2. Chemical stability

No decomposition in normal use.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Product is stable when handled or stored correctly.

10.5. Incompatible materials

No dangerous reactions known.

10.6. Hazardous decomposition products

None known. At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated – see section 5.2

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11. Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on acute effects of exposure

11.1.1. Inhalation
Breathing dust may cause irritation to the nose, throat and upper respiratory tract.

11.1.2. Skin Contact
May cause abrasive skin irritation.

11.1.3. Eye Contact
May cause abrasive irritation and injury.

11.1.3. Ingestion
Not toxic. Swallowing may cause gastrointestinal disturbances.

11.1.4. Chronic Health Effects
Prolonged inhalation of respirable dust may cause adverse lung effects. Most of the dust generated during abrasive processes is from the base material being processed and the potential hazard from this exposure must be evaluated.

11.1.5. Sensitization
Aluminium oxide was negative in a sensitization studies in guinea pigs.

11.1.6. Germ Cell Mutagenicity
This product is not expected to present a risk of genetic damage. Negative in a bacterial recombination assay.

11.1.7. Reproductive Toxicity
No specific data is available; however, this product is not expected to present a risk of adverse reproductive or developmental toxicity.

11.1.8. Carcinogenicity

Name	Route	Species	Value
Overall product	Ingestion	No data available	not carcinogenic

11.1.9. Acute toxicity values

Name	Route	Species	Value
Overall product	Ingestion	No data available	calculated ATE > 5,000 mg/kg

ATE = acute toxicity estimated

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12. Ecological information

No adverse effects on aquatic organisms are expected. However, consideration must be given to potential environment effects of the base material being processed.

12.1. Toxicity

No effects known.

12.2. Persistence and degradability

No biodegradable potentials known.

12.3. Bioaccumulative potential

No potentials known.

12.4. Mobility in soil

No potentials known.

12.5. Results of PBT and vPvB assessment

Not relevant.

12.6. Other adverse effects

No effects known.

13. Disposal considerations

13.1. Waste treatment methods

Dispose in accordance with all local, state and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

13.1.2. Product

Follow national and regional regulations.

Due to the ingredients and properties disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),

13.1.3 Packing

Follow national and regional regulations.

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14. Transport information

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

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	None	Not Regulated	None	None	
TDG	None	Not Regulated	None	None	

14.1. Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
Not determined.

14.2. Special precautions
None identified.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the product

15.1.2. European Regulation
No specific labelling requirements under respective EC directives.

15.1.3. US Federal Regulations
Contact "sia abrasives Ind. AG" for more information.

15.1.3.1 CERCLA Hazardous Substances (Section 103)/RQ:
This product is not subject to CERCLA release reporting. Many states have more stringent spill reporting requirements. Report spills in accordance will all applicable regulations.

15.1.3.2. SARA Hazard Category (311/312)

Fire Hazard	No
Sudden Release of Pressure	No
Reactivity	No
Acute Health	No
Chronic Health	No

15.1.3.3. EPA SARA 313
This product contains the following chemicals regulated under SARA Title III, section 313

Substance	CAS-N°	Procent
Silicon Carbide	409-21-2	35 -65%

15.1.3.4. California Proposition 65
This product is not known to contain regulated chemicals. Dust created from abrasive processing may contain chemicals known to cause cancer, birth defects or other reproductive harm.

15.1.3.5. EPA TSCA Inventory
All of the components of this product are listed on the TSCA inventory.

15.2. Chemical safety assessment
Not relevant.

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16. Other information

NFPA RATING (NFPA 704)		FIRE	1		HEALTH	1		INSTABILITY	0
HMIS RATING		FIRE	1		HEALTH	1		PHYSICAL HAZARD	0

16.1. Changes to the previous versions

See sections 1 to 16.

16.2. Literature and data sources

REACH Regulation (EC) Nr. 1907/2006
Regulation (EC) N° 1272/2008
Directive 98/24/EC
Directive 2000/39/EC
Directive 75/324/EEC
Decision 2000/532/EC
Transport regulations according to ADR, RID und IATA.

16.3. Hazard statements referred to in section 2 and 3

Not applicable

16.4. According to Regulation (EC) N° 1272/2008:

Not applicable

The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product and shall be used only as a guide. The information does not form part of any contractual agreement and relates only to the product designated herein and does not relate to its use in combination with any other material or process. It remains the user's responsibility to adhere existing laws and regulations.