



VOLUNTARY PRODUCT INFORMATION BASED ON A SAFETY DATA SHEET FORMAT

Dear customer,

in the last years Skyward has voluntarily provided information about its abrasive products using a safety data sheet.

Under the REACH Regulation the status and importance of the safety data sheet has changed. Safety data sheets are documents with a legally defined scope which have to fulfill certain requirements related to the format and content (Annex II of the REACH Regulation). Following the REACH Regulation the communication of important information via Safety Data Sheets (SDS) is only foreseen for **substances** and **mixtures**. For **articles** a safety data sheet is not foreseen under REACH.

Abrasive products meet the criteria of **articles** according to REACH with exception of polishes and pastes which are defined as mixtures or substances. Consequently no safety data sheets have to be provided by abrasive producers for most of their products.

However, many customers of the abrasive industry are used to the format and structure of a safety data sheet and prefer the communication of information on abrasive products in this form.

Therefore the abrasive industry has decided to continue to provide this voluntary information on a safe use and handling of abrasives in the form of a

“Voluntary Product Information (VPI) based on the format of a safety data sheet”.

This document has the same general format of a MSDS (16 paragraphs). However, some subparagraphs are not included because they are not relevant because of the status of articles of abrasives.

Please, consider that the provision of this document is a voluntary service. There is no obligation for abrasive industry to provide this document.

We hope that this decision of the abrasive industry respect your internal quality requirements.

Don't hesitate to contact us for every question you may have.

Kind regards,

SKYWARD di Griggio Samuele

RESINOID BONDED GRINDING WHEELS VOLUNTARY PRODUCT INFORMATION

DOCUMENT BASED ON A SAFETY DATA SHEET FORMAT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance or preparation (annex VI to directive 67/548/CEE):
Metallographic cutting discs type SC / CT.

1.2. Use of the substance or preparation: metallographic test-piece cutting with automatic machines.

1.3. Company/undertaking identification: **SKYWARD di Griggio Samuele**
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35133 PADOVA
Tel. 049/614651 Fax 049/614651
HTTP:// www.skyward-gs.com
E-MAIL: info@skyward-gs.com

1.4. Emergency telephone number: Tel. 049/614651
From Monday to Friday from 9:00 to 12:30 and from 14:30 to 18:30

2. HAZARDS IDENTIFICATION

2.1. Classification

Not applicable. Abrasives are articles and not dangerous substances or preparations according to REACH Regulation no. 1907/2006/EC and no. 1272/2008 (CLP) and Directive no. 1999/45/CE.
See paragraphs 8 and 16.

2.2. Label elements

Abrasives are articles and not dangerous substances or preparations. Labelling is not needed according to Directive no. 1999/45/CE or Regulation (CE) no. 1272/2008.

2.3. Other hazards

Not known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1.1. ABRASIVE

NAME	REACH REGISTRATION NO.	CAS NO.	EC NO.	CONC.	CLASSIFICATION FOLLOWING REGULATION (CE) NO. 1272/2008		CLASSIFICATION FOLLOWING DIRECTIVE NO. 67/548/CEE
					HAZARD CLASS/HAZARD CATEGORY	HAZARD CODES	
SILICON CARBIDE	-	409-21-2	206-991-8	70-80%	No classification required		

3.1.2. BOND

NAME	CONC.	
POLYMERIZED SYNTHETIC RESIN	7-12%	Usually there are no toxic emissions from the finished product.

3.1.3. BOND FILLERS

NAME	COMPOSITION	REACH REGISTRATION NO.	CAS NO.	EC NO.	CONC	CLASSIFICATION FOLLOWING REGULATION (CE) NO. 1272/2008		CLASSIFICATION FOLLOWING DIRECTIVE NO. 67/548/CEE
						HAZARD CLASS/HAZARD CATEGORY	HAZARD CODES	
CARBONATE BASED COMPOUND	CaCO ₃ : 98,5%; MgCO ₃ : 1,2%	NOT APPLICABLE	1317-65-3	471-34-1	2-5%	No classification required		
SULPHURATE COMPOUNDS	Fe: min 43%; S: min 48%	NOT APPLICABLE	1309-36-0	215-167-7	2-5%	No classification required		
POTASSIUM ALUMINIUM FLUORIDE	KAIF ₄ ; K ₃ AIF ₆	01-2119513404-51	60304-36-1	-	2-5%	Acute Tox. 4 Lact. STOT RE 1 Eye Irrit. 2 Aquatic Chronic 2	H332 H362 H372 H319 H412	R52/53, R64,T R48/23, Xn R20, Xi R36

4. FIRST AID MEASURES

No special measures required.
See paragraphs 8 and 16.

4.1. Description of first aid measures

The following basic rules are always recommended:

INHALATION:	No hazardous effects known.
EYE CONTACT :	No hazardous effects known.
SKIN CONTACT:	Rinse with clean water and soap.
INGESTION:	No hazardous effects known. If needed, consult a doctor.
ADVICE TO DOCTOR:	N.a.

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

Not known.

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

Not important. Symptomatic treatment.

5. FIRE-FIGHTING MEASURES

The product is not flammable. In case of fire in the warehouse, the usual extinguishing media can be used: water, powder, foam, sand and CO₂ if compatible with environmental conditions. Use a respirator to avoid inhaling the fumes.

Advise for fire-fighters: extinguishing media should be selected evaluating the surrounding area.

6. ACCIDENTAL RELEASE MEASURES

The goods accidentally released from the packaging are not hazardous for people and environment. If the product wipes out, recover dust by vacuuming, avoiding to create airborne dust.

7. HANDLING AND STORAGE

7.1. Handling

- Handle the wheels with great care and attention.
- If there is the suspect that a wheel has had a crash or mistreatment, call the manufacturer.

7.2. Storage

- When receiving the goods, inspect the packaging and that all the wheels have not been damaged during the transport.
- Store the wheels in a rational way and make a regular rotation of the stock
- Remember that the resinoid reinforced wheels must be used within 3 years, however not beyond the expiry date when indicated.

- Wheels must be stored in dry storerooms where there are not big thermal shocks and where the goods are not subjects to frost.

7.3. Specific use

None.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Exposure limit value

Before starting working, a risk valuation is recommended. Use protective measures consequently.

Limit exposure values on workplace

Keep under control exposure to the following elements.
(Observe also official regional regulations)

SUBSTANCE	EC NO.	CAS NO.	TWA	MAK
SILICIUM CARBIDE	206-991-8	409-21-2	5 mg/m ³	4 mg/m ³
POTASSIUM ALUMINIUM FLUORIDE	-	60304-36-1	8 h: 2,5 mg/m ³	

The grinding operation may create a mist with a low concentration of dust that, in a normal aeration condition, it is plentifully below the hazardous limits. Dusts are mainly composed by the machined material and, only in a very small percentage, by the consumed abrasive. For a greater safety, in the situation of insufficient ventilation, is recommended to verify the concentration in the environment and eventually adopt protective measures suitable to the professional exposition standards.

8.2. Exposure controls

General hygiene measures: do not drink, do not eat, do not smoke on working place and wash hands when finishing working.



8.2.1. Occupational exposure controls

8.2.1.a. Respiratory protection: only ventilate the working room. If there is a heavy dust concentration, use adequate masks or filters. Type depends on the specific application and on the material that is being worked.



8.2.1.b. Hands protection: use protective gloves or protective cream for sensitive skins. Type depends on the specific application and on the material that is being worked.



8.2.1.c. Eyes protection: use safety glasses or goggles or face shield Type depends on the specific application and on the material that is being worked.



8.2.1.d. Hearing protection: use hearing protections. Type depends on the specific application and on the material that is being worked.



8.2.1.e. Skin protection: Wear reliable protective suit. Type depends on the specific application and on the material that is being worked.



In case of eye, skin or respiratory tracts irritation or swallowing, consult a doctor.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

The preparations can have different dimensions, shapes and colors at the solid state. It has not a perceptible odour when it is used. Water solubility not defined.

9.2. Additional information:

None.

10. STABILITY AND REACTIVITY

10.1. Reactivity:

The wheels are stable and they are non reactive under the normal working conditions.

10.2. Stability:

There are no decomposition relations under normal use conditions.

10.3. Possibility of hazardous reactions:

No dangerous reactions are known.

10.4. Conditions to avoid:

Rigid abrasives are stable when handled or stored properly. Avoid Extreme heat and humidity.

10.5. Incompatible materials:

Strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products:

If the grinding wheels are used according to the instructions, no hazardous decomposition products are developed but if used at temperatures exceeding 250 C° hazardous or toxic decomposition products may be generated.

TOXICALOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological effects in case of inhalation or swallowing or eye or skin contact are not known.
See paragraph 8.

ECOLOGICAL INFORMATION

The preparation is not bio-degradable. Handle the product adopting good working practices, avoiding to release it in the environment.

12.1. Toxicity:

No effect known.

12.2. Persistence and degradability:

Not bio-degradable.

12.3. Bio-accumulative potential:

Not applicable.

12.4. Mobility in soil:

No potential known.

12.5. Result of PBT e vPvB assessment:

Not persistent.

12.6. Other adverse effects:

No information available.

DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

13.1.1 Product

Follow local and National laws.

Concerning ingredients and properties, disposal as not hazardous waste is possible (2000/532/CE), if dangerous materials are not added to abrasives (EWC – No. 120121).

13.1.2 Packaging

Follow local and National laws

TRANSPORT INFORMATION

Protect from rain and from excessive temperature and humidity. Ensure that the product will not be damaged during transport.

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

REGULATORY INFORMATION

15.1. Specific product regulations/laws concerning security, health and environment

No special labels are needed as it is not a hazardous substance according to EC directives.

15.2. Chemical security valuation

Not significant.

OTHER INFORMATION

Amendments to former version:

Version 1.0 dated 07th July 11

Version 1.1 dated 17th June 13, modified paragraph 7.2, validity.

Bibliography and data source:

Directive (1999/45/EC), amended by Regulation (EC) No. 1907/2006.

Directive (67/548/EEC), amended by Directive 2009/2/EC.

Regulation REACH (EC) No. 1907/2006, amended by Regulation (EC) No. 552/2009.

Regulation (EC) No. 1272/2008, amended by Regulation (EC) No. 790/2009.

Directive 2000/39/EC, amended by Directive 2009/161/EC

Directive 75/324/EEC, amended by Regulation (EC) No. 219/2009.

Regulation on transport according to ADR, RID and IATA.

Hazard statements listed in sections 2 and 3

According to Regulation (EC) NO. 1272/2008:

Lact	Reproductive toxicity, effects on or via lactation
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Eye Irrit. 2	Serious eye damage/eye irritation, category 2
Aquatic Chronic 3	Hazardous for the aquatic environment, long-term hazard, category 3
H362	May cause harm to breast-fed children
H332	Harmful if inhaled
H372	Causes damage to organs through prolonged or repeated exposure
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

Risk phrases

According to Directive 67/548/EEC

R20	Harmful by inhalation
R36	Irritating to eyes
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R64	May cause harm to breast-fed babies

Information contained herein is based on our state of knowledge and experience at the above mentioned date. It do not constitute any implicit or explicit guarantee and it do not establish a responsibility in case of an improper use.

It is the duty of the user to follow hygiene, safety and environment protection regulations.

Issued by: SKYWARD di Griggio Samuele