



EXCAVATION

13

GRINDING WHEELS



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IBS, Inc.

SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR
(800) 678-1906 www.industrialbolt.com

SAFETY DATA SHEET

Cut-Off Wheels & Grinding Wheels

SECTION 1 - Identification of the Product and Company

1.1 Product Name	Reinforced Resinoid Bonded Abrasive Wheel
1.2 Product Use	For material removal. See ANSI B7.1-2000
1.3 Company Details:	IBS, Inc.
Address:	740 Clay St NW Auburn, WA 98001
Phone:	1-800-678-1906
Fax:	1-253-804-8665

SECTION 2 - Hazard Information

2.1 Precautionary statements	Wear Respirator, eye protection, and protective clothing when using product Product will produce sparks and debris when in use, avoid using product near reactive or flammable substances or electrical equipment Discard if product comes in contact with water
2.2 Description of Hazards	Respiratory Wheel dust is a respiratory irritant Skin Wheel dust and fiberglass reinforcement is a skin irritant Ingestion Acute product toxicity unknown Eyes Wheel Dust is an eye irritant Chronic Potential Chronic Effects include skin sensitization and restricted breathing Hazard Status This product is classified as non hazardous under OSHA HCS 29 CFR 1910.1200

SECTION 3 - Composition

Ingredient	Formula	% Weight	Cas #
Aluminum Oxide	Al ₂ O ₃	50 - 80	1344-28-1
Silicon Carbide	SiC	0-70	409-21-2
Zirconium Oxide	ZrO ₂	0 - 12	1314-23-4
Calcium Hydroxide	Ca(OH) ₂	0-1	1305-62-0
Barium Sulfate	BaSO ₄	0-10	7727-43-7
Iron Sulfide	FeS ₂	0-18	12068-85-8
Alkali Aluminum Fluorides	*	0-15	15096-52-3/ 60304-38-1
Cured Phenolic Resin	*	0 - 15	N/A
Glass Fiber	*	0 - 5	N/A
Steel	*	0.1 - 1	N/A
Carbon Black	*	trace	N/A
Zinc	Zn	N/A	N/A

SECTION 4-First Aid

4.1 First Aid for exposure	Terminate exposure and remove to fresh air. Obtain medical assistance. Dust Inhalation: Obtain medical assistance. Ingestion: N/A Absorption: N/A Skin contact: Terminate exposure and remove to fresh air. Obtain medical assistance. Eye: Flush eyes with water. Acute: May cause coughing and shortness of breath during grinding Skin Irritation Eye Irritation.
4.2 Signs and Symptoms of Exposure	

SECTION 5 - Fire Fighting Measures

5.1 Flammable Properties:	None
Means Of Extinction:	Water or carbon dioxide
Special Fire Fighting Procedures:	Consult NFPA or CFFA procedures
Unusual Fire or Explosion Hazards:	None

SECTION 6 - Accidental Release Measures

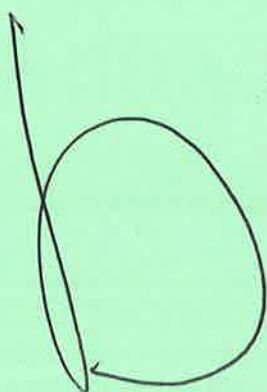
Normal clean up procedures should be used if material is released
Use of gloves to clean up spent wheels is recommended

SECTION 7- Storage, Handling and Use Procedures

Handling:	Avoid damage to wheel. Do not drop. Always handle in accordance with ANSI B7.1.
Use:	Always use in accordance with ANSI Z43.1 and OSHA 1910.215. Do not use dropped or damaged wheels. Do not use without machine guard in place. Do not exceed maximum RPM on wheel.
Storage:	Avoid excessive temperatures in storage. Store in a dry area

SECTION 8- Personal Protective Control Measures

8.1 Control Measures	
Protection:	Requirements and Referrals.
Respiratory:	OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134 or European Standard EN 149.
Ventilation:	Engineering Controls recommended. See ANSI Z43.1. Refer to OSHA 29 CFR 1910.94.
Protective Gloves:	Leather gloves.
Eye Protection:	Protective eyewear such as safety glasses or face shield. Refer to OSHA 29 CFR 1910.133.
Hearing Protection:	Hearing protection such as approved ear muffs or ear plugs. Refer to OSHA 29 CFR 1910.95.
Body Protection:	Leather apron, chaps, or shoe coverings to shield from heavy spark showers in operation.
Hygienic Practices:	Wash with soap and water after handling and grinding





Safety Data Sheet

Nitro Green Grinding Wheels

Revision: 4/1/15

Section 1. Identification

Product name: Nitro Green Grinding Wheel, Nitro XL Green Grinding Wheel

Recommended use: Abrasive wheels used for grinding different types of metals.

Restrictions on use: No Restrictions, use as intended.

Company name: IBS, Inc.
Address: 740 Clay St NW
Auburn, WA 98001

Contact Information: Tel: 800-678-1906
Fax: 253-804-8665
Email: www.industrialbolt.com

Emergency phone number: 800-255-3924

Date of preparation: May 1, 2015

Section 2. Hazard(s) Identification

Hazard classification: Nitro Green products are considered non-hazardous under OSHA CHS 29 CFR 1910.1200

Label elements: Not applicable
Pictograms: Not applicable

Precautionary statements:

Always wear appropriate safety gear when using this product. (See section 8 for Personal Protective Equipment) Refer to ANSI B7.1, *Safety Requirements for the Use, Care and Protection of Abrasive Grinding Wheels*. Do not handle until all safety precautions have been read and understood.

Supplemental labeling: Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

IBS, Inc. – Nitro
4/1/15

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Aluminum Oxide	1344-28-1	50 – 60%
Zirconium Oxide	1314-23-4	10 – 20%
Chromic Oxide	1308-38-9	2%
Titanium Dioxide	13463-67-7	0.3%
Phenolic abrasive binder**	N/A	20 -22%
Fiberglass	65997-17-3	5%
Alkali Aluminum Fluorides**	60304-36-1/15096-52-1	0-5%

**Substance is a compound and/or mixture

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First-Aid Measures

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

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

Ingestion: Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or if you feel unwell.

Inhalation: Move person to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

Most important symptoms/effects, acute and delayed: Dust may cause eye and respiratory irritation.

Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. Exposure to dust generated from processing the base material or coatings may present additional health hazards.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention should not be required.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use any media that is suitable for the surrounding fire. Do not use water on fires involving metals dusts. Use an appropriate dry powder.

Specific hazards arising from the chemical: This product is not flammable or combustible; however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when machined or ground.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

Section 9. Physical and Chemical Properties

Appearance: Solid Article
Color: Green

Odor: Slight odor may be noticed when in use.

Odor threshold: Not available	pH: Not applicable
Melting point/freezing point: Not available	Boiling point: Not applicable
Flash point: Not flammable	Evaporation rate: Not applicable
Flammability (solid, gas): Not flammable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not applicable	Vapor density: Not applicable
Relative density: Not available	Solubility in Water: Insoluble
Partition coefficient: n-octanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use and storage.

Chemical stability: Stable

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: None known.

Hazardous decomposition products: None known. Dust from grinding could contain potentially hazardous components of the base material being ground or coatings applied to the base material.

Section 11. Toxicological Information

Acute effects of exposure:

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

Skin contact: May cause abrasive skin irritation.

Eye contact: May cause abrasive irritation and injury.

Ingestion: Not toxic. Swallowing may cause gastrointestinal disturbances or obstruction.

Carcinogenicity: This product contains titanium dioxide. Titanium dioxide is listed by IARC as a group 2B carcinogen (suspected human carcinogen). Cancer of the lungs has been associated with titanium dioxide. No exposure to titanium dioxide is anticipated during normal use Nitro Green products using the standard precautions outlined in this document.

No other components are listed as carcinogens or suspected carcinogens by OSHA, NPT, ACGIH or IARC.

Chronic Health Effects: Prolonged inhalation of respirable dust may cause adverse lung effects, including cancer. Chronic effects may be aggravated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated.

Sensitization: No data available for the product. Not expected to be a skin sensitizer based on human experience.

Germ cell mutagenicity: This product is not expected to present a risk of genetic damage.

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

Acute toxicity values:

Aluminum Oxide: LD50 Oral rat > 10000 mg/kg; LC50 Inhalation rat > 2.3 mg/L/4 hr

Zirconium Oxide: LD50 Oral rat > 5000 mg/kg; LC50 Inhalation rat > 4.3 mg/L/4hr

Chromic Oxide: No acute toxicity data available

Titanium Dioxide: LD50 Oral rat > 5000 mg/kg; LC50 Inhalation rat > 6.82 mg/L/4hr

Alkali Aluminum Fluorides: LD50 Oral rat > 5000 mg/kg

Phenolic abrasive binder: No acute toxicity data available

Fiberglass: No acute toxicity data available

Section 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.

Ecotoxicity values:

Aluminum oxide: NOEC 96 hr Salmo trutta >100 mg/L; NOEC 48 hr daphnia magna >100 mg/L; NOEC 72 hr

Zirconium Dioxide: LL50 96 hr Danio rerio >1000 mg/L; NOEC 48 hr daphnia magna > 100 mg/L

Fiberglass: LC50 96 hr Danio rerio >1000 mg/L; EC50 72 hr daphnia magna >1000 mg/L; EC50 72 hr

Titanium Dioxide: : EC50 72 hr Pseudokirchnerella subcapitata 61 mg/L

Phenolic abrasive binder: No data available.

Alkali Aluminum Fluorides: No acute toxicity data available

Chromic Oxide: No data available

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

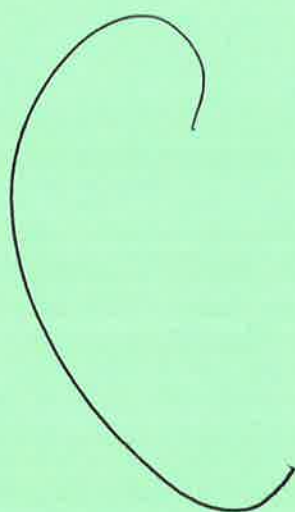
Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: None known.

Section 13. Disposal Considerations

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.



 FEDERATION EUROPEENNE DES FABRICANTS DE PRODUITS ABRASIFS	 IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR (800) 678-1906 www.Industrialbolt.com	Reference/Product name: RIPPER WHEELS Version/Revision: 23/02/2016 Printing date: 23/02/2016 page 1 of 6
Voluntary product information based on the format of a safety data sheet for organic bonded abrasives		

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

1.1 Product identifier

RIPPER Abrasive Wheels

IBS No. 62540, 62541, 62545 and 69540

1.2 Use of the product

Organic bonded abrasives for grinding / cutting of different materials

1.3 Details of the supplier of the voluntary product information:

Company: IBS, Inc.

Address: 740 Clay St. NW, Auburn, WA 98001

Phone: 800-678-1906 Fax: 800-688-3196

Website: www.industrialbolt.com

1.4 Emergency telephone number:

Chemtel 800-255-3924

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.

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.

2.3. Other hazards

Not known.

5.3. Advice for fire fighters

Extinguishing materials should be selected according to the surrounding area.

6. Accidental release measures

Not applicable.

7. Handling and storage

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

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.

Occupational exposure limit values and/or biological limit values

Keep exposure to the following components under surveillance.
(Observe also the regional official regulations)

Limit value type (country of origin)	substance	EC-N°	CAS-N°	Occupational limit value				Peak limit	source, remark
				Long term		Short term			
				mg/m³³	ml/m³ (ppm)	mg/m³	ml/m³ (ppm)		
(D)	KRYOLITH / CRYOLITE	237-410-6	13775-53-6		1,00			4,00	TRGS900

Note: 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.

8.2. Exposure controls

8.2.1. Individual protection measures

8.2.1.1. Respiratory protection: Use respiratory protective equipment

(type depends on specific application and material being ground)

8.2.1.2. Hand protection: Wear protective gloves

(type depends on specific application and material being ground)

8.2.1.3. Eye protection: Wear protective goggles or face shield

12. Ecological information

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

13.1. 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),

☒ Due to the ingredients and properties disposal as hazardous waste (2000/532/EC) (EWC – Nr. 120120)

13.2. Packing

Follow national and regional regulations.

14. Transport information

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

15. Regulatory information

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

No specific labelling requirements under respective EC directives.

15.2. Chemical safety assessment

Not relevant.

16. Other information

Changes to the previous versions

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MATERIAL SAFETY DATA SHEET

PRODUCT: NITRO "SUPERFAST" GRINDING WHEEL

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SECTION 10. ECOLOGICAL INFORMATION

CHEMICAL FATE

Bonded abrasive wheels do not appreciably decay.

SECTION 11. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Use standard landfill methods consistent with applicable Federal, State, and local laws.

SECTION 12. TRANSPORT INFORMATION

HAZARD CLASS

This product is not hazardous as defined by the Department of Transportation. (USA)

SECTION 13. REGULATORY INFORMATION

SARA Title III Section 313: This product does not contain regulated levels of any toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

PROPOSITION 65

Substances compound(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the ASafe Drinking Water and Toxic Enforcement Act of 1986".

Formaldehyde CAS# 50-00-0 trace

SECTION 14. OTHER INFORMATION

DISCLAIMER

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. IBS makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. Use of this product is not within the control of IBS, it is the users obligation to determine the conditions of safe use.

END OF MSDS