



SAG·Tek

*Nickel bonded diamond
tool with 40A rubber tip*

NBDT with 40A rubber tip

Version 1 – rev a

*Date: March 2025
SAG-Tek*

Material Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Nickel bonded diamond tool with 40A rubber tip

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: The polishing of metallic or ceramic surfaces

1.3. Details of the supplier of the safety data sheet

Name: SAG-Tek Ltd

Full address: 2 Garden Court, Gee Road, Coalville, Leicestershire, England, LE67 4NB

1.4. Emergency telephone number +44 1530 432 590

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This product contains Nickel metal. Nickel and its salt/compounds are classified dangerous substances by multiple regulations, due to the health effects of ingesting or inhaling the substance. However, the substance must be in a form that allows for this type of exposure. The nickel found in this product is not in a form that could allow for easy ingestion or inhalation. To prevent the nickel from becoming a hazard, use the product as directed/advised.

2.2. Label elements

Not applicable

2.3. Other hazards

This product contains material that does not result in classification by the regulations covered in subsections 2.1 and 2.2. But does contribute to the overall hazards of the product.

Dust:

If dust is generated by the rubber component, it could scratch the eyes and cause minor irritation to the respiratory tract. If the product is not used as directed/intended, combustible dust concentrations may form in the air.

Fumes:

If heated above 200°C then rubber fumes may be produced that cause irritation to the respiratory tract and eyes.

Burn Hazard:

If the product is heated then contact with the hot material may cause

SECTION 3. Composition/information on ingredients

3.1. Substances

Stainless steel

Nitrile rubber

Flexible diamond sheet Nickel bonded

Cyanoacrylate

3.2. Mixtures

The following components are classified as mixtures:

Nitrile rubber

Flexible diamond sheet Nickel bonded

Cyanoacrylate

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3.2 Mixtures (cont.) Ingredients:

Chemical Name	CAS	Concentration	CLP Classification
Nitrile rubber			
Acrylonitrile-butadiene polymer	9003-18-3	>60%	N/A
Carbon Black	1333-86-4	<30%	N/A - Suspected Carcinogen
Zinc Oxide High Purity	1314-13-2	<3%	Aquatic Chronic 1: H410, Aquatic Acute 1: H400
N-1,3-Dimethylbutyl-N'-phenyl-p-phenylenediamine	793-24-8	<1%	Acute Tox. 4: H302, Aquatic Acute 1: H400, Aquatic Chronic 1: H410, Skin Sens. 1: H317
N-Cyclohexyl-2-Benzothiazole Sulphenamide	95-33-0	<1%	Skin Sens. 1: H317, Aquatic Chronic 1:H410
Tetramethylthiuram Disulphide	137-26-8	<2%	Acute Tox. 4: H302+332, Eye Irrit. 2: H319, Aquatic Acute 1: H400, Aquatic Chronic 1:H410, Skin Irrit. 2: H315, Skin Sens. 1: H317, STOT RE 2: H373
4,4'-Dithiodimorpholine	103-34-4	<1.5%	Aquatic Chronic 2: H411, Eye Irrit. 2: H319, Skin Irrit. 2: H315, Skin Sens. 1: H317
4,4'-Dithiodimorpholine	103-34-4	<1.5%	Aquatic Chronic 2: H411, Eye Irrit. 2: H319, Skin Irrit. 2: H315, Skin Sens. 1: H317
Flexible diamond sheet Nickel bonded			
Nickel	7440-02-0	22 – 65 %	Skin Sens. 1: H317, Carc. 2: H351, STOT RE 1: H372
Diamond	7782-40-3	1.7 – 12.8 %	N/A
Polyurethane adhesive	N/A	7.2 – 14.4 %	N/A
Polycotton	N/A	12 – 60.8 %	N/A
Cyanoacrylate			
Ethyl 2-cyanoacrylate	7085-85-0	x = Conc. % 60% ≤ x < 100%	Eye Irrit. 2: H319, Skin Irrit. 2: H315, STOT SE 3: H335, EUH202 STOT SE 3: H335 ≥ 10%



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SECTION 4. First aid measures

4.1. Description of first aid measures

Skin:	Contact with heated product or decomposition material can produce burns. Treat as ordinary burn and wash with soap.
Eyes:	Heated product can produce fumes, flush eyes with copious amounts of water. Flexible resin sheet can produce particulates, treat as foreign particulate matter.
Inhalation:	Remove to fresh air if inhalation of fumes from heated product occurs. In case of extreme exposure consult with a doctor.
Ingestion:	No known effects
General first aid information:	If irritation or other symptoms occurs and persists, seek medical attention.

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

If the product is not used as directed/intended, the rubber component may be heated during use. This may result in the production of fumes that can cause irritation to the eyes and respiratory tract.

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

There is no expectation of needing available immediate or special medical treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Water, dry chemicals, air foams.
Unsuitable extinguishing media:	None.

5.2. Special hazards arising from the substance or mixture

Special hazards caused by the material:	Do not inhale combustion products. Fumes of Butadiene, Hydrogen Chloride and further toxic substances will be emitted upon combustion.
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5.3. Advice for firefighters

Self-protective equipment for firefighters:	In the event of a fire be aware of noxious fumes. Wear respiratory protection equipment.
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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not necessary if used as directed/intended.

6.2. Environmental precautions

Prevent entry into sewers or waterways. Observe local regulations.

6.3. Methods and material for containment and cleaning up

Mechanically retrieve material for solid waste disposal. Observe local regulations.

6.4. Reference to other sections

Information on personal protection is available in section 8 and disposal information is provided in section 13.



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Gloves should be worn when handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Store away from heat, solvents, acids, oxidising material, flammable liquids, and potential ignition sources (including electrical equipment). Ensure product is dry before storage and store in provided packaging.

7.3. Specific end use(s)

This product is intended for use in an industrial milling machine or robot, with a suitable mechanism for fixing and/or rotating the product around its axis. This product requires cooling during use.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Method of exposure	Chemical identity	MEL (Maximum Exposure Limit) 8hr TWA
Inhalation	Rubber Dust (Mixture)	6.0 mg/m ³
	Rubber Fume (Mixture)	0.6 mg/m ³
	Nickel	0.01 mg/m ³
Ingestion	Nickel	0.01 mg/m ³

Rubber fumes have the potential to produce carcinogenic nitrosamines and noxious substances. Solid nickel metal poses no health risk, from inhalation or ingestion, if used as directed/intended.

8.2. Exposure controls

Engineering controls:

Air ventilation and filtration systems are advised to minimise dust and particulate accumulation. Observe local regulations on the control airborne contaminants, for example, HSG258.

Personal protection:

Respiratory: Appropriate respiratory protection if necessary.

Hand: Gloves may be required.

Eye: Goggles or safety glasses may be required.

Skin: Wear long sleeved clothing.

Environmental controls:

Observe local regulations on emission limits.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Steel metallic, black rubber, and cloth with metal plates on surface, cloth colour coded to diamond grit size
Odour:	None / Slight
Melting point:	1325°C – 1530°C
Boiling point:	Not applicable
Flammability:	No
Lower and upper explosion limit:	Not applicable
Flash point:	Above 200°C
Auto-ignition temperature:	Above 300°C
Decomposition temperature:	Above 300°C
pH:	Not applicable
Kinematic viscosity:	Not applicable
Solubility:	Insoluble
Density at 20°C:	4.9 – 7.88 g/cm ³

9.2. Other information

9.2.1. Information with regard to physical hazard classes	No information available
9.2.2. Other safety characteristics	No information available

SECTION 10. Stability and reactivity

10.1. Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	None known
10.4. Conditions to avoid	Avoid excessive heat (300°C or above), use a suitable coolant as directed.
10.5. Incompatible materials	Strong acids, alkalis, oxidising material, and solvents such as Toluene and MEK.
10.6. Hazardous decomposition products	When heated above decomposition temperature toxic rubber fumes are emitted, including but not limited to; carbon dioxide, and carbon monoxide. Toxic metal fumes and oxides are emitted if the product is heated above the melting point.



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SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC)

No 1272/2008

Acute toxicity:	Nickel metal, when ingested or inhaled, is classified as acutely toxic by REACH regulation (EC) No 1907/2006.
Skin corrosion/irritation:	Prolonged contact with rubber may cause redness of skin and slight irritation. Repeated and prolonged contact with nickel metal (which is a powerful skin sensitiser) may cause dermatitis and allergy.
Serious eye damage/irritation:	Decomposition fumes will cause eye irritation.
Respiratory or skin sensitisation:	Decomposition fumes will cause irritation to respiratory tract.
Germ cell mutagenicity:	None known.
Carcinogenicity:	Nickel is a category 2 carcinogen. It is suspected of causing cancer if inhaled into the lungs. The US National Institute for Occupational Safety and Health (NIOSH) states there is no evidence that nickel is carcinogenic.
Reproductive toxicity:	Nickel is suspected of causing genetic defects and may damage fertility, when ingested or inhaled.
STOT-single exposure:	None known.
STOT-repeated exposure:	Nickel causes damage to organs through prolonged or repeated exposure via inhalation. Target organ: Lungs; LOAEC = 0.1 mg Ni/m ³
Aspiration hazard:	Particulates or decomposition fumes may be harmful if they enter airways.

11.2 Information on other hazards

According to available data, this product does not contain any substances listed in regulations: (EU) 2017/2100, (EU) 2018/605.

SECTION 12. Ecological information

12.1. Toxicity	Nickel is toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	Not biologically degradable.
12.3. Bioaccumulative potential	Individual components of the product are considered to not be, or are unlikely to be bioaccumulative.
12.4. Mobility in soil	No information available
12.5. Results of PBT and vPvB assessment	According to available data, this product does not contain PBT or vPvB in a percentage of \geq than 0,1%.
12.6. Endocrine disrupting properties	According to available data, this product does not contain any substances listed in regulations: (EC) No 1907/2006, (EU) 2017/2100, (EU) 2018/605.
12.7. Other adverse effects	None.



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SECTION 13. Disposal considerations

13.1. Waste treatment methods

Observe local regulations on the disposal of cyanoacrylate. Small quantities of cyanoacrylate (as found in this product) can be disposed of in landfill. However, the product should be disposed of as solid hazardous waste, in accordance with local regulations. Do not incinerate or recycle this product.

SECTION 14. Transport information

This product does not contain material that is classified by transport of dangerous goods regulations.

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

None.

14.6. Special precautions for the user

None.

14.7. Maritime transport in bulk according to IMO instruments

None.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The substance Nickel is listed as a substance restricted under Annex XVII (REACH). Nickel its self isn't categorised by Seveso.

As stated in section 2.1 nickel is listed and categorised as a dangerous substance by multiple regulations, due to the health effects of ingesting or inhaling the substance. However, this information is based on the nickel being in powder form, not solid metal.

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for this product.

SECTION 16. Other information

This material safety data sheet was created in compliance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending of Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). This material safety data sheet also complies with US OSHA regulations.

Disclaimer

The information in this material safety data sheet has been sourced from the material safety data sheets of each ingredient of this product, in addition to the scientific and technical knowledge of each substance and the overall product. The sourced information and data are believed to be accurate at the date of publication. SAG-Tek Limited shall not be held responsible for any inaccuracy in the data presented in this material safety data sheet, and any use of the product that is not subject to our direct control.