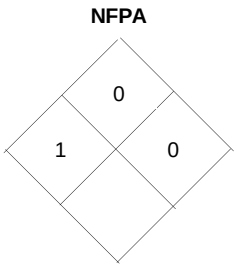
Company Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA

1 Commercial product name and supplier

1.1 Commercial product name / Designation

High Fusing Bondal Flux NP



HMIS	
H	1
F	0
R	0

1.2 Application / Use: Brazing Flux

1.3 Producer: Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA

1.4 Supplier: Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA
2785 Skymark Ave., Unit 1 Mississagua, ON L4W4Y3, Canada
MSDS prepared by Anderjeet Gulati. Tel. No. 716 691-0010

1.5 24 Hour Emergency Assistance: Emergency-Call USA- Infotrac: 1-800-535-5053
Emergency-Call Canada - Canutec: 1-613-996-6666

General MSDS Assistance: US: 1-800-533-6825
Canada: 1-800-263-8182

2 Composition

2.1 Chemical characterization

2.2 Hazardous components

CAS No. 85392-66-1 60 - 80 % Potassium hydroxo-fluoroborate
Xn: Harmful. R22: Harmful if swallowed.

CAS No. 7440-42-8 1 - 5 % Boron

2.3 Further information

3 Hazards identification

Harmful if swallowed.
Irritating to respiratory system and skin.

4 First aid measures

4.1 Eye contact: Flush eyes with plenty of water (10-15 min.). Call a physician.

4.2 Skin contact: Wash thoroughly with water.

		Remove contaminated clothing immediately.
4.3	Ingestion	Rinse mouth with plenty of water. Give large amounts of water. If you feel unwell, seek medical advice (show this safety data sheet). Adverse effects may be delayed.
4.4	Inhalation	Take into fresh air. If you feel unwell, seek medical advice (show this safety data sheet).
4.5	Further information	

5 Fire-fighting measures

5.1	Suitable extinguishing media	No specific requirements.
5.2	Extinguishing media to avoid	None known
		Test method:
5.3	Flash point	not applicable
5.4	Ignition temperature	Not applicable.
5.5	Explosion limits	Lower: Upper: not applicable
5.6	Further information	Wear self-contained breathing apparatus. Do not discharge extinguishing waters into streams, rivers and lakes.

6 Accidental release measures

Ensure adequate venting.
Clean up mechanically. Wash the area with soap and water. Do not allow to flow off into the drains or waters.
Prevent skin and eye contact.

7 Handling and storage

7.1	Handling	Only adequately trained personnel should handle this product.
7.2	Industrial hygiene	Avoid breathing dust. Take off immediately all contaminated clothing. Wash clothing before reuse. Usual hygienic measures are necessary.
7.3	Storage	Keep only in the original container in a cool well-ventilated place. Store at 5-28 °C / 41-82 °F.
7.4	Place of storage	Store in a well ventilated, cool, dry area.
7.5	Fire- and explosion-protection	No specific requirements.

8 Exposure controls / Personal protection

8.1	Exposure controls	No specific requirements.
8.2	Exposure limit values	None established.
8.3	Occupational exposure controls	
8.3.1	Respiratory protection	When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator. In poorly ventilated areas, use self-contained breathing apparatus.
8.3.2	Hand protection	Rubber gloves.
8.3.3	Eye protection	Safety goggles.
8.3.4	Other	None.
8.4	Environmental exposure controls	Not relevant.

9 Physical and chemical properties

9.1	Appearance	Paste	
9.2	Colour	brown	
9.3	Odour	odourless	
9.4	Change of physical state		Test method:
		932 °F	
	Boiling point	230 °F	
9.5	Density	1.6 g/cm³	
9.6	Vapour pressure		
		not applicable	
9.7	Viscosity		
9.8	Solubility		
	water	500 g/l (20°C)	
9.9	pH	5.5	20 °C
9.10	Further information		
	Part. coeff. n-octanol/water		
	Evaporat. rate		

10 Stability and reactivity

10.1	Thermal decomposition	None, if used in accordance to instructions.
10.2	Hazardous decomposition products	During thermal decomposition, toxic and irritating gases/fumes may be released. Hydrogen fluoride.
10.3	Conditions / materials to avoid	Strong acids.
10.4	Further information	None.

11 Toxicological information

11.1	Acute toxicity	Oral LD50 for rats: 744 mg/kg
11.2	Subacute / Chronic toxicity	No data available. -
11.3	Further information	None.

12 Ecological information

12.1	Ecotoxicity	No data available.
12.2	Mobility	No data available.
12.3	Persistence and degradability	No data available.
12.4	Bioaccumulative potential	No data available.
12.5	Further information	No data available.

13 Disposal considerations

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

14 Transport information

14.1	Transport at land	ADR	---	RID	---
		UN Number	---	Kemler Number	---
		Packing Group	---		
		Proper shipping name	---		
14.2	Transport at sea	ADNR	---	IMDG	---
		UN Number	---		
		EMS	---	MFAG	---
		Packing Group	---		
		Proper shipping name	---		
		Marine pollutant			

14.3	Air transport		ICAO / IATA-DGR	---
			UN Number	---
			Proper shipping name	---
			Subsidiary Risk	---
			Labels	---
			Packing Group	---
		Passenger airplane	Packing Instructions	---
			max.	---
		Cargo Airplane	Packing Instructions	---
			max.	---
14.4	Further information			

Product is not classified as a dangerous good for transport.

15 Regulatory information

15.1 National regulations

15.2 NFPA Storage

15.3 Further information None.

16 Other information No other information.

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

This safety data sheet has been generated with the safety database 'ChemManager',
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Weiherweg 3, CH-4104 Oberwil, Switzerland