## **GHS Classification**

ID490

Boron

CAS 7440-42-8

Date Classified: Aug. 22, 2006 (Environmental Hazards: Mar. 31, 2006)

**Physical Hazards** 

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	_	_	-	Containing no chemical groups with explosive properties
2	Flammable gases	Not applicable	_	-	-	Classified as "solid" according to GHS definition
3	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4	Oxidizing gases	Not applicable	_	1	_	Classified as "solid" according to GHS definition
5	Gases under pressure	Not applicable	_	ı	_	Classified as "solid" according to GHS definition
6	Flammable liquids	Not applicable	_	1	_	Classified as "solid" according to GHS definition
7	Flammable solids	Classification not possible	_	ı	_	No data available
8	Self-reactive substances and mixtures	Not applicable	-	-	_	Containing no chemical groups with explosive or self-reactive properties
9	Pyrophoric liquids	Not applicable	_	-	-	Classified as "solid" according to GHS definition
10	Pyrophoric solids	Classification not possible	-	_	_	Classification not possible, because of the unidentified configuration and the absence of data. With the flash point of 580degC (HSDB (2006)), the substance is not pyrophoric when in contact with air at ordinary temperatures. However, its dust may spontaneously ignite in the air, according to HSDB (2006).
11	Self-heating substances and mixtures	Classification not possible	-	-	_	No data available
12	Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	I	_	Stable to water (insoluble, Merck (13th, 2001))
	Oxidizing liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
14	Oxidizing solids	Not applicable	-	-	-	Inorganic substances containing no oxygen or halogen
15	Organic peroxides	Not applicable	-	-	-	Not organic compounds
16	Corrosive to metals	Classification not possible	_	-	-	Test methods applicable to solid substances are not available

## **Health Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	Based on the rat LD50 (oral route) value of 650mg/kg (RTECS (2006)).
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	_	_	_	Due to the fact that the substance is "solid" according to the GHS definition and inhalation of its gas is not expected.
1 Acute toxicity (inhalation:	Classification not possible	-	_	-	No data available
Acute toxicity (inhalation: dust, mist)	Classification not possible	_	-	-	No data available
_	Classification not possible	_	-		No data available. As for the health hazards, refer to "ID0491,CAS No.10043-35-3, Boric Acid."
3 Serious eye damage / eye irritation	Classification not possible	_	_		No data available As for the health hazards, refer to "ID0491,CAS No.10043-35-3, Boric Acid."
	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	Respiratory sensitization: No data available Skin sensitization: No data available
5 Germ cell mutagenicity	Classification not possible	_	_	_	No data available
6 Carcinogenicity	Classification not possible	_	_	_	No data available
7 Toxic to reproduction	Classification not possible	-	-	-	Insufficient data available
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	-	_	_	No data available
exposure	Classification not possible	_	-		Insufficient data available
10 Aspiration hazard	Classification not possible	_	_	_	No data available

## **Environmental Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Classification not possible due to lack of data		

11 Hazardous to the aquatic environment (chronic)	ible –	-	-	Classification not possible due to lack of data
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