

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/18/2014 Revision date: 08/24/2015 Supersedes: 11/18/2014

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : Inkabor 20.5
Chemical name : Sodium octaborate
CAS No : 12008-41-2
Formula : B8Na2O13

Synonyms : BAYER 19639 / bora care / boracol 40 / boric acid (H2B8O13), disodium salt / boron sodium

oxide (B8 Na2 O13) / boron sodium oxide (Na2B8O13) / disodium octaborate / disodium octaborate, anhydrous / disodiumborate / ethylthiodemeton(j) / impel / M-74(SU) / O,O-diethyl-S-2-ethylthioethylphosphorodithioate / polybor / sodium borate / sodium borate (Na2B8O13) / sodium borate(B8Na2O13) / sodium octaborate, anhydrous /

Version: 2.0

thiodemeton

BIG no : 12760

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

Use of the substance/mixture : Various agricultural applications

Use of the substance/mixture : Wood: preservative

Chemical raw material

Industrial use

1.3. Details of the supplier of the safety data sheet

MarVista Resources 745 North Ave. Corcoran, Ca. 93212 - USA T 559-992-4535

1.4. Emergency telephone number

Emergency number : 24 Hour Emergency Response Chemtrec: 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
Power BOR 20.5	(CAS No) 12008-41-2	100	Not classified
(Main constituent)			

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact First-aid measures after eye contact Rinse with water. Take victim to a doctor if irritation persists. Wash skin with plenty of water.Rinse with water. Take victim to an ophthalmologist if irritation persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/injuries

: May cause eye irritation. May produce skin irritation.

Symptoms/injuries after inhalation

No effects known.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion

Not irritating.No effects known.No effects known.

Dry skin.

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

Treat symptomatically.

Chronic symptoms

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Adapt extinguishing media to the environment. Water spray. Dry powder. Foam.

Unsuitable extinguishing media

: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard

Reactivity

: DIRECT FIRE HAZARD. Non combustible.

Explosion hazard

DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard.
 The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Precautionary measures fire

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and

Firefighting instructions

: Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain

Protection during firefighting

: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.

Emergency procedures

: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes.

Measures in case of dust release

: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection" ".

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers.

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6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the solid spill. Knock down/dilute dust cloud with water spray.

Methods for cleaning up : Recover mechanically the product. Stop dust cloud by covering with sand/earth. Scoop solid

spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash

clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection"".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Comply with

the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the

open/under local exhaust/ventilation or with respiratory protection.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Incompatible products : strong acids. Alkaloids. Metal salts.

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : No data available.

Storage area : Keep container in a well-ventilated place. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. correctly labelled. meet the legal requirements. Secure

fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Power BOR 20.5 (12008-41-2)			
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (Borate compounds, inorganic; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction)	
ACGIH	ACGIH STEL (mg/m³)	6 mg/m³ (Borate compounds, inorganic; USA; Short time value; TLV - Adopted Value; Inhalable fraction)	

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl

rubber. nitrile rubber. GIVE LESS RESISTANCE: No data available. GIVE POOR

RESISTANCE: No data available.

Hand protection : Glove:

Eye protection : Safety glasses. In case of dust production: protective goggles. Safety glasses.

Skin and body protection : Protective clothing.

Respiratory protection : Dust production: dust mask with filter type P3. High dust production: self-contained breathing

apparatus.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Powder.

Color : White

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Odor : Odourless Odor threshold : No data available рΗ : No data available Melting point : > 1000 °C Freezing point Not applicable Boiling point : Not applicable Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** : Not applicable : No data available Explosive properties Oxidizing properties : No data available Vapor pressure : 0 hPa (25 °C) Relative density : Not applicable Relative vapor density at 20 °C No data available Molecular mass 340.459 g/mol

Water: 22365 g/100ml (20 °C)

Soluble in water.

Log Pow : -0.76 (Literature)
Auto-ignition temperature : Not applicable
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Solubility

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Alkaloids. Metal salts. strong acids.

10.6. Hazardous decomposition products

Boric oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Power BOR 20.5 (12008-41-2)	
LD50 oral rat	2550 mg/kg (Rat; FIFRA (40 CFR); Experimental value)
LD50 dermal rabbit	> 2000 mg/kg body weight Rabbit; Experimental value; FIFRA (40 CFR)
LC50 inhalation rat (mg/l)	> 201 mg/l/4h (Rat; Experimental value)
ATE US (oral)	2550.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified

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Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : No effects known.

Symptoms/injuries after skin contact : Dry skin. Symptoms/injuries after eye contact : Not irritating. Symptoms/injuries after ingestion No effects known. Chronic symptoms : No effects known.

SECTION 12: Ecological information

Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included Ecology - air

in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse

5.2.7.1.3.

Maximum concentration in drinking water: 1.0 mg/l (boron) (Directive 98/83/EC). Harmful to Ecology - water

fishes. Slightly harmful to invertebrates (Daphnia). Harmful to algae.

Persistence and degradability 12.2.

Power BOR 20.5 (12008-41-2)		
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

12.3. **Bioaccumulative potential**

-	
Power BOR 20.5 (12008-41-2)	
BCF fish 1	0 (BCF; Salmo gairdneri)
BCF other aquatic organisms 1	121 (BCF; Algae)
Log Pow	-0.76 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed

together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Remove to an authorized plant for the destruction, neutralization

and elimination of hazardous waste.

Additional information LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive

2008/98/EC.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Power BOR 20.5 (12008-41-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Revision date : 08/24/2015

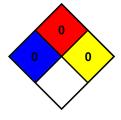
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



SDS US (GHS HazCom 2012)

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