

Safety Data Sheet: HI ACTIVE BRAZING FLUX

Supersedes Date Not applicable

Issuing Date 08/03/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HI ACTIVE BRAZING FLUX
Recommended use Brazing Flux
Information on Manufacturer
X-ERGON by Partsmaster, Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code PMW37100
Chemical nature Inorganic substances in powdered form
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
800-336-0450

2. HAZARD IDENTIFICATION

Color White

Physical State Solid (Powdered Solid)***

Odor No information available

GHS

Classification

Physical Hazards

Health Hazard

Acute Oral Toxicity
Acute Inhalation Toxicity - Dusts and Mists
Reproductive Toxicity

Category 5***
Category 2***
Category 1B***

Other hazards

None

Labeling

Signal Word

DANGER***



Hazard Statements

H330 - Fatal if inhaled
H319 - Causes serious eye irritation
H303 - May be harmful if swallowed
H360 - May damage fertility or the unborn child***

Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust.
P271 - Use in a well-ventilated area.
P281 - Use personal protective equipment as required
P284 - Wear respiratory protection
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P308 + P313 - IF exposed or concerned, get medical attention
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a physician
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents and container to an approved waste disposal plant.***

0 % of the mixture consists of ingredient(s) of unknown toxicity***

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Boric acid	10043-35-3	40-70
Sodium tetraborate	1330-43-4	15-40

Iron oxide	1309-37-1	1-5
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4. FIRST AID MEASURES

General advice	No information available
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Inhalation	Move to fresh air
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash***	Method Seta closed cup
Upper No data available	Lower No data available
Suitable Extinguishing Media	
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment	
Specific hazards arising from the chemical	
The product causes burns of eyes, skin and mucous membranes	
Protective Equipment and Precautions for Firefighters	
As in any fire, wear self-contained breathing apparatus pressure-demand, SAFE WORK,AUSTRALIA (approved or equivalent) and full protective gear	
NFPA	Health -
HMIS	Health -
	Flammability -
	Flammability -
	Instability 0
	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation
Environmental Precautions	Prevent further leakage or spillage if safe to do so
Methods for Containment	No information available
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place
Storage Temperature	Minimum No information available
Storage Conditions	Indoor Outdoor Maximum Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines ***			
Component	ACGIH TLV	OSHA PEL	NIOSH
Boric acid	TWA: 2 mg/m ³ inhalable fraction STEL: 6 mg/m ³ ***	No data available	No data available
Sodium tetraborate	TWA: 2 mg/m ³ inhalable fraction STEL: 6 mg/m ³ ***	No data available	TWA: 1 mg/m ³ ***
Iron oxide	TWA: 5 mg/m ³ respirable fraction***	TWA: 10 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction***	2500 mg/m ³ Fe dust and fume TWA: 5 mg/m ³ dust and fume***

Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields
Skin Protection	For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid (Powdered Solid)***	Viscosity	No information available
Color	White	Odor	No information available

Odor Threshold	Not applicable	Appearance	No information available
pH	Not applicable	Specific Gravity	1.46
Bulk Density (lb/cu ft)	91.2	Evaporation Rate	No information available
Percent Volatile (Volume)	No information available	VOC Content (%)	No information available
Vapor Pressure	No information available	Vapor Density	No information available
Solubility	No information available	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	Not applicable	Flammability (solid, gas)	No data available
Flash Point	Does not flash***	Method	Seta closed cup
Autoignition Temperature	No information available.		
Upper No data available Lower No data available			

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	None known
Incompatible Products	No materials to be especially mentioned
Decomposition Temperature	No data available
Hazardous Decomposition Products	None under normal use
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	2720***
Dermal LD50	2062***
Inhalation LC50	
Gas	No information available
Mist	0.281***
Vapor	No information available

Principle Route of Exposure	None reasonably foreseeable
Primary Routes of Entry	None known
Acute Effects	
Eyes	May cause slight irritation
Skin	Substance may cause slight skin irritation
Inhalation	May cause irritation of respiratory tract
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Chronic Toxicity	No information available
Target Organ Effects	No information available
Aggravated Medical Conditions	No information available

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Boric acid	= 2660 mg/kg (Rat)***	> 2000 mg/kg (Rabbit)***	> 0.16 mg/L (Rat) 4 h***	no data available	no data available
Sodium tetraborate	= 2660 mg/kg (Rat)***	> 2000 mg/kg (Rabbit)***		no data available	no data available
Iron oxide	> 10000 mg/kg (Rat)***			no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	
Sodium tetraborate	no data available		no data available	no data available	Skin, Eyes, Respiratory system, ***
Iron oxide	no data available		no data available	no data available	Skin, Eyes, Respiratory system, ***

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Boric acid	not applicable	Group 2A	not applicable	not applicable	not applicable
Iron oxide	not applicable	Group 3***	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Boric acid	No information available	No information available	No information available	115 - 153: 48 h Daphnia magna mg/L EC50 ***	-0.757***
Sodium tetraborate	EC50 = 158 mg/L Desmodesmus subspicatus 96 h EC50 2.6 - 21.8 mg/L Pseudokirchneriella subcapitata 96 h ***	LC50 = 340 mg/L Limanda limanda 96 h ***	No information available	1085 - 1402: 48 h Daphnia magna mg/L LC50 ***	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal

14. TRANSPORT INFORMATION

DOT

Not regulated***

TDG

Not regulated***

ICAO

Not regulated***

IATA

Not regulated***

IMDG/IMO

Not regulated***

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
No	No	No	No	No

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

Prepared By

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Supersedes Date

Not applicable

Issuing Date

08/03/2015

Reason for Revision

No information available.

Glossary

No information available.

List of References.

No information available.

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