

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

Category 5***

Acute Inhalation Toxicity - Dusts and Mists

Category 2***

Reproductive Toxicity

Category 1B***

Other hazards

None

Labeling

Signal Word

DANGER***



Hazard Statements

H330 - Fatal if inhaled

Precautionary Statements

P201 - Obtain special instructions before use

H319 - Causes serious eye irritation

P202 - Do not handle until all safety precautions have been read and understood

H303 - May be harmful if swallowed

P260 - Do not breathe dust.

H360 - May damage fertility or the unborn child***

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 -	Flammability -	Instability 0
HMIS	Health -	Flammability -	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	Maximum No information available	
Storage Conditions	Indoor	Outdoor	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	Christopher Drogan
Supercedes Date	Not applicable
Issuing Date	08/03/2015
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

X-ERGON by Partsmaster, Div of NCH Corp.assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.