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Revision Number 1

1. IDENTIFICATION

Product identification

Product identifier Cronatron™ F22 Cast Iron Brazing Flux

Other means of identification CW1830

Recommended use Flux

Restrictions on use For industrial use only

Supplier

Corporate Headquarters:
Cronatron, A Lawson Brand
Lawson Products, Inc.
8770 W. Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2

Symbol



Signal word

WARNING

Hazard statements

H361 - Suspected of damaging fertility or the unborn child
H319 - Causes serious eye irritation

Precautionary statements

General

P101 - If medical advice is needed, have product container or label at hand

	P102 - Keep out of reach of children P103 - Read label before use.
Prevention	P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P264 - Wash face, hands and any exposed skin thoroughly after handling P280 - Wear protective gloves/protective clothing and eye/face protection
Response	
Eyes	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 advice/attention P308 + P313 - IF exposed or concerned: Get medical advice/attention
Storage	P405 - Store locked up
Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant
Hazard(s) Not Otherwise Classified (HNOC)	None known.
Physical Hazards Not Otherwise Classified (PHNOC)	None known.
Unknown acute toxicity	None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Sodium carbonate	497-19-8	60-90
Borax Glass	1303-96-4	10-40

4. FIRST-AID MEASURES

Necessary first-aid measures

General Information	Show this safety data sheet to the doctor in attendance. Call a POISON CENTER or doctor/physician. Move out of dangerous area.
Inhalation	Remove to fresh air. Consult a physician.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention immediately.
Skin contact	Consult a physician.
Eye contact	Flush for 15 minutes or until irritation subsides. If easy to do, remove contact lenses. Consult a physician.
Most important symptoms (acute)	Pre-existing kidney and/or liver disorders may be aggravated by exposure to this product.
Most important symptoms (over-exposure)	Not available.

Indication of any immediate medical attention and special treatment needed Not available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical. Foam. Carbon dioxide (CO₂). Water spray.

Unsuitable extinguishing media Not available.

Specific hazards Boranes. Oxides of boron.

Special protective equipment for fire-fighters Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up Sweep up product. Take up mechanically and collect in suitable container for disposal. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin, eyes and clothing. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities Store in plastic containers. Keep containers tightly closed in a cool, well-ventilated place. Keep tightly closed in a dry and cool place. Protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Sodium carbonate	-	-	-
Borax Glass	-	6 mg/m ³ STEL 2 mg/m ³ TWA	5 mg/m ³ TWA 1 mg/m ³ TWA

Appropriate engineering controls Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use spark-proof tools and explosion proof equipment.

Individual protection measures, such as personal protective equipment

Eye protection When a risk assessment indicates it is necessary. ANSI approved safety glasses are recommended to prevent accidental eye contact.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact. Wear protective nitrile rubber gloves. Wash contaminated clothing before reuse. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or supplied air respirator complying with a approved standard if a risk assessment indicates this is necessary.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland and Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Sodium carbonate	-	-	-	-	-	-	-	-	-	-
Borax Glass	3 ppm STEL 1 mg/m ³ TWA	6 mg/m ³ STEL 2 mg/m ³ TWA 2 mg/m ³ TWA 2 mg/m ³ TWA	2 mg/m ³ TWA 6 mg/m ³ STEL	5 mg/m ³ TWA 1 mg/m ³ TWA	6 mg/m ³ STEL 2 mg/m ³ TWA 2 mg/m ³ TWA 2 mg/m ³ TWA	6 mg/m ³ STEL 2 mg/m ³ TWA	6 mg/m ³ STEL 2 mg/m ³ TWA 2 mg/m ³ TWA	6 mg/m ³ STEL 2 mg/m ³ TWA 2 mg/m ³ TWA 2 mg/m ³ TWA	5 mg/m ³ TWA EV 1 mg/m ³ TWA EV	6 mg/m ³ STEL 2 mg/m ³ TWA 2 mg/m ³ TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Powder
Color	Red
Odor	Not available
Odor threshold	Not applicable
pH	Not applicable
Melting point/range °C	175 °C
Melting point/range °F	347 °F
Boiling point/range °C	Not available
Boiling point/range °F	Not available
Flash point °C / °F	Not available
Flash point method used	Not available
Evaporation rate	Not available
Flammability (Solid, Gas)	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	Not available

Vapor density	Not available
Relative density	Not available
Solubility	completely soluble in water
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Keep from excessive heat.
Incompatible materials	No specific data.
Hazardous decomposition products	Not available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Not available.
Symptoms	Not available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	Not available.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Sodium carbonate	= 2300 mg/m ³ (Rat) 2 h	-	= 4090 mg/kg (Rat)
Borax Glass	-	> 10000 mg/kg (Rabbit) > 2000 mg/kg (Rabbit)	= 2660 mg/kg (Rat) = 3493 mg/kg (Rat)

ATEmix (dermal)	Not available
ATEmix (oral)	Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
Sodium carbonate	-	-	-	-
Borax Glass	A4	Group 2A	Listed	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Sodium carbonate	-	-	-	-	-	-
Borax Glass	-	-	ACGIH A4	-	ACGIH A4	-

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish
Sodium carbonate	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static
Borax Glass	158: 96 h Desmodemus subspicatus mg/L EC50 2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	340: 96 h Limanda limanda mg/L LC50

Persistence and degradability Not available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Sodium carbonate 497-19-8	497-19-8	-
Borax Glass 1303-96-4	1303-96-4	-

Mobility in soil Not available.

Other adverse effects Not available

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose of via licensed waste disposal contractor. Discard container or liner in accordance with federal, state, and local regulations.

Contaminated packaging Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

Proper shipping name Not regulated

TDG

Proper shipping name Not regulated

IATA

Proper shipping name Not regulated

IMDG/IMO

Proper shipping name Not regulated

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Sodium carbonate	497-19-8	-	-	-
Borax Glass	1303-96-4	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations

U.S. state Right-to-Know regulations

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Sodium carbonate	497-19-8	-	-	-
Borax Glass	1303-96-4	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Sodium carbonate	497-19-8	-
Borax Glass	1303-96-4	-

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Sodium carbonate	497-19-8	-	-
Borax Glass	1303-96-4	-	-

US EPA SARA 311/312
hazardous categorization

Not applicable

International inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)), Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Sodium carbonate	X	X	-
Borax Glass	X	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health	Not available
Flammability	Not available
Instability	Not available

HMIS

Health	1
Flammability	0
Physical hazards	0

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
 ATE (Average Toxicity Estimate)
 DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
 HMIS (Hazardous Materials Identification System)

IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of Safety Data Sheet