

Safety Data Sheet: STAIN-PLUS EASY DOWN ELT

Supersedes Date 05/16/2011

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name STAIN-PLUS EASY DOWN ELT

Recommended use Welding

Information on Manufacturer

X-ERGON by Partsmaster, Div of NCH Corp.

P.O. Box 655326

Dallas, TX 75265-5326

Product Code 12640000

Chemical nature Inorganic solid blend

Emergency Telephone Number

CHEMTREC® 800-424-9300

Telephone inquiry

800-336-0450

2. HAZARD IDENTIFICATION

Color Gray

Physical State Solid

Odor Odorless

GHS

Classification

Physical Hazards

None

Health Hazard

Acute Oral Toxicity

Category 5

Skin Corrosion/Irritation

Category 3

Skin Sensitization

Category 1

Carcinogenicity

Category 2

Specific target organ systemic toxicity (repeated exposure)

Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard Statements

H303 - May be harmful if swallowed

H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

P201 - Obtain special instructions before use

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

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating and lighting equipment

P243 - Take precautionary measures against static discharge

P260 - Do not breathe dust or fume

P270 - Do not eat, drink or smoke when using this product

P281 - Use personal protective equipment as required

P321 - Specific treatment (see supplemental first aid instructions on this label)

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P363 - Wash contaminated clothing before reuse

P272 - Contaminated work clothing should not be allowed out of the workplace

P308 + P313 - IF exposed or concerned, get medical attention

P405 - Store locked up

P273 - Avoid release to the environment

P501 - Dispose of contents and container to an approved waste disposal plant.

37 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Iron	7439-89-6	40-45
Chromium	7440-47-3	18-20

Nickel	7440-02-0	11-15
Chromium Oxide	1308-38-9	1-6
Molybdenum	7439-98-7	2-4
Lithium aluminum silicate	12068-40-5	2-4
Potassium silicate	1312-76-1	1-4
Calcium carbonate	1317-65-3	1-2
Manganese	7439-96-5	2-3
Titanium dioxide	13463-67-7	1-3
Feldspar	68476-25-5	2-3
Sodium silicate	1344-09-8	2-3
Calcium Fluoride	7789-75-5	1-5
Silicon	7440-21-3	0.1-1

4. FIRST AID MEASURES

General advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact Rinse thoroughly with plenty of water, also under the eyelids.
Skin Contact In case of contact, immediately flush skin with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation Remove person to fresh air. If signs/symptoms continue, get medical attention.
Ingestion If swallowed, do not induce vomiting - seek medical advice.
Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point Not applicable **Method** Not applicable
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
 Arcs and sparks can ignite combustibles and flammable products. See American National Standard Z49.1; Safety in Welding and Cutting published by The American Welding Society .
Protective Equipment and Precautions for Firefighters
 As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.
NFPA **Health** 2 **Flammability** 0 **Instability** 0
HMIS **Health** 2 **Flammability** 0 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear appropriate protective clothing. Avoid creating dusty conditions. Transfer solid into a properly labeled container for re-use or disposal. If necessary, wash area with water and pick up wash water for disposal.
Environmental Precautions Prevent product from contaminating soil or from entering sewage, drainage systems, and bodies of water .
Methods for Containment Pick up and arrange disposal without creating dust.
Methods for Cleaning Up Shovel or vacuum any spilled material into a suitable container. Alloy wastes are normally collected to recover metal value .
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Do not eat, drink or smoke when using this product. 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** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines ***

Component	ACGIH TLV	OSHA PEL	NIOSH
Chromium	TWA: 0.5 mg/m ³ ***	TWA: 1 mg/m ³ ***	250 mg/m ³ TWA: 0.5 mg/m ³ ***
Nickel	TWA: 1.5 mg/m ³ ***	TWA: 1 mg/m ³ ***	10 mg/m ³ TWA: 0.015 mg/m ³ ***

Chromium Oxide	TWA: 0.5 mg/m ³ ***	TWA: 0.5 mg/m ³ ***	TWA: 0.5 mg/m ³ ***
Molybdenum	TWA: 10 mg/m ³ inhalable fraction TWA: 3 mg/m ³ respirable fraction***	No data available	5000 mg/m ³ ***
Calcium carbonate	No data available	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction***	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust***
Manganese	TWA: 0.02 mg/m ³ respirable fraction TWA: 0.1 mg/m ³ inhalable fraction***	Ceiling: 5 mg/m ³ ***	500 mg/m ³ STEL 3 mg/m ³ TWA: 1 mg/m ³ fume***
Titanium dioxide	TWA: 10 mg/m ³ ***	TWA: 15 mg/m ³ total dust***	5000 mg/m ³ ***
Calcium Fluoride	TWA: 2.5 mg/m ³ ***	TWA: 2.5 mg/m ³ TWA: 2.5 mg/m ³ dust***	No data available
Silicon	No data available	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction***	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust***

Engineering Measures

Use enough ventilation, local exhaust at the arc, or both to keep the fumes and gases below the TLV's in the worker's breathing zone and in the general area. Train the worker to keep his head out of the fumes .

**Personal Protective Equipment
Eye/Face Protection**

Wear a helmet or use face shield with filter lens of appropriate shade number (SEE ANSI/ASCZ49.1) provide protective screen and flash goggles, if necessary, to shield others. As a rule of thumb, start a shade that is too dark to see the weld zone. Then go next lighter shade which gives sufficient view of the weld zone .

**Skin Protection
Respiratory Protection**

Welder's leather gloves, Wear fire/flame resistant/retardant clothing.
Use a NIOSH/MSHA approved or equivalent fume respirator or air supplied respirator when welding in confined spaces, or where local exhaust or ventilation does not keep exposure below TLV's .

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Viscosity	Not applicable
Color	Gray	Odor	Odorless
Odor Threshold	Not applicable	Appearance	Textured black paste
pH	Not applicable	Specific Gravity	8
Evaporation Rate	Not applicable	Percent Volatile (Volume)	No information available
VOC Content (%)	No information available	Vapor Pressure	Not applicable
Vapor Density	Not applicable	Solubility	Insoluble
n-Octanol/Water Partition	No data available	Melting Point/Range	*** 1830 °F*** / *** 999*** - °C***
Decomposition Temperature	No data available	Boiling Point/Range	*** 5000 °F*** / *** 2760*** °C***
Flammability (solid, gas)	No data available	Method	Not applicable
Flash Point	Not applicable		
Autoignition Temperature	No information available.		
Upper No data available Lower	No data available		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Conditions to Avoid	None known
Incompatible Products	Strong acids, Strong oxidizing agents.
Hazardous Decomposition Products	Fumes and gasses produced by welding, brazing and similar processes cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, the procedures and the filler metal being used. Other conditions which also influence the composition and quantity of fumes and gases to which the worker may be exposed include: coatings on the metal being welded, the number of welders and the volume of the work space, the quality and amount of ventilation used, the position of the welder's head in relation to the fume plume, as well as the presence of contaminants in the atmosphere when the filler metal is consumed. The fume and gas decomposition products generated are different in percent and form the product ingredients listed in Section III. The products formed in normal operation include those originating from the volatilization, reaction and oxidation of the filler metal, the metal being welded, the coatings, etc. as noted above. One recommended way to determine the composition and quality of fumes and gases to which workers are exposed is to take an air sample inside the welders helmet if worn or in

the workers breathing zone. See ANSI/AWS F1.1 "Method For Sampling Airborne Particles Generated By Welding And Allied Processes" available from the American Welding Society, P.O. Box 35140, Miami, FL 33135

Possibility of Hazardous Reactions

Hazardous polymerization does not occur

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 No information available
 Dermal LD50 No information available
 Inhalation LC50
 Gas No information available
 Mist No information available
 Vapor No information available

Principle Route of Exposure Inhalation

Primary Routes of Entry Inhalation

Acute Effects

Eyes Causes eye irritation. Welding arc may damage eyes .
Skin Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause eye/skin irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed.

Chronic Toxicity

Prolonged exposure may cause chronic effects. Long term overexposure to iron fumes may lead to siderosis (iron deposits in the lung) and is believed by investigators to affect pulmonary function. Lungs will clear in time when exposure to iron and its components cease . Inhalation of manganese fumes may affect the central nervous system, may cause spastic gait, drowsiness, paralysis and other neurological problems with symptoms including weakness and tremors resembling Parkinson's disease. Behavioral changes and changes in handwriting may also appear . Constant inhalation of chromium (VI) compounds may cause an ulceration and perforation of the nasal septum as well as liver and kidney damage. IARC has concluded that the evidence for carcinogenicity to humans and animals is inadequate for chromium metal and trivalent compounds, but sufficient for hexavalent chromium compounds. Chromium compounds are on the IARC list as posing a carcinogenic risk to humans. OSHA (29 CFR 1910.120) lists chromium as possible carcinogen. Chromium VI compounds are required by OSHA to be considered carcinogenic . Repetitive exposure to nickel oxides may lead to lung fibrosis or pneumoconiosis. Soreness and itchiness of the nose and changes in skin color and/or appearance may also result. Nickel compounds are on the IARC list as posing a carcinogenic risk to humans. OSHA (29 CFR 1910.120) lists nickel as possible carcinogen . Inhalation of Molybdenum fumes has caused kidney damage, respiratory irritation and liver damage in animals .

Target Organ Effects

Central nervous system, Respiratory system.

Aggravated Medical Conditions

Central nervous system, Respiratory system.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Iron	= 984 mg/kg (Rat)***	no data available	no data available	no data available	no data available
Nickel	> 9000 mg/kg (Rat)***	no data available	no data available	no data available	no data available
Potassium silicate	= 1300 mg/kg (Rat)***	no data available	no data available	no data available	no data available
Calcium carbonate	= 6450 mg/kg (Rat)	no data available	no data available	no data available	no data available
Titanium dioxide	> 10000 mg/kg (Rat)***	no data available	no data available	no data available	no data available
Sodium silicate	= 1153 mg/kg (Rat)***	no data available	no data available	no data available	no data available
Calcium Fluoride	= 4250 mg/kg (Rat)***	no data available	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Chromium	no data available	no data available	no data available	no data available	eyes, respiratory system, skin***
Nickel	no data available	no data available	no data available	no data available	nasal cavities, lungs, skin (lung and nasal cancer) lungs, skin, nasal cavities (lung and nasal cancer) ***
Chromium Oxide	no data available	no data available	no data available	no data available	eyes,skin***
Molybdenum	no data available	no data available	no data available	no data available	eyes,respiratory system,liver,kidneys***
Calcium carbonate	no data available	no data available	no data available	no data available	eyes, respiratory system, skin***
Manganese	no data available	no data available	no data available	no data available	CNS,respiratory

					system,blood,kidneys***
Titanium dioxide	no data available	no data available	no data available	no data available	respiratory system
Sodium silicate	no data available	no data available	no data available	no data available	kidneys
Silicon	no data available	no data available	no data available	no data available	eyes,respiratory system,skin

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Chromium	not applicable	Group 3***	not applicable	not applicable	not applicable
Nickel	not applicable	Group 1 Group 2B***	Known Reasonably Anticipated***	X***	not applicable
Chromium Oxide	not applicable	Group 3***	not applicable	not applicable	not applicable
Titanium dioxide	A4	Group 2B***	not applicable	X***	not applicable
Feldspar	not applicable	Group 2B	not applicable	not applicable	not applicable
Calcium Fluoride	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
Iron	no data available	LC50 = 13.6 mg/L <i>Morone saxatilis</i> 96 h ***	no data available	no data available	N/A
Nickel	EC50 0.174 - 0.311 mg/L <i>Pseudokirchneriella subcapitata</i> 96 h EC50 = 0.18 mg/L <i>Pseudokirchneriella subcapitata</i> 72 h ***	LC50 = 1.3 mg/L <i>Cyprinus carpio</i> 96 h LC50 = 10.4 mg/L <i>Cyprinus carpio</i> 96 h LC50 > 100 mg/L <i>Brachydanio rerio</i> 96 h ***	no data available	100: 48 h <i>Daphnia magna</i> mg/L EC50 1: 48 h <i>Daphnia magna</i> mg/L EC50 Static ***	N/A
Potassium silicate	no data available	LC50 301 - 478 mg/L <i>Lepomis macrochirus</i> 96 h LC50 = 3185 mg/L <i>Brachydanio rerio</i> 96 h ***	no data available	no data available	N/A
Sodium silicate	no data available	LC50 301 - 478 mg/L <i>Lepomis macrochirus</i> 96 h LC50 = 3185 mg/L <i>Brachydanio rerio</i> 96 h ***	no data available	no data available	N/A

Persistence and Degradability
Bioaccumulation
Mobility

No information available.
No information available.
No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal
Container Disposal

Dispose of in accordance with local regulations.
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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Chromium	7440-47-3	18-20	1.0***
Nickel	7440-02-0	11-15	0.1***
Chromium Oxide	1308-38-9	1-6	1.0***
Manganese	7439-96-5	2-3	1.0***
Feldspar	68476-25-5	2-3	1.0***

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

Component	Hazardous Substances RQs	CERCLA EHS RQs
Chromium	5000 lb***	Not applicable
Nickel	100 lb***	Not applicable

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

Component	CAS-No	California Prop. 65
Chromium	7440-47-3	carcinogen, initial date 2/27/87, developmental female, male 12/19/08
Nickel	7440-02-0	carcinogen***

16. OTHER INFORMATION

Prepared By Christopher Drogin
 Supersedes Date 05/16/2011
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 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.