Safety Data Sheet: PASTEBOND #283

Supercedes Date 02/09/2011 **Issuing Date** 07/03/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name PASTEBOND #283
Recommended use Soldering
Information on Manufacturer
X-ERGON by Partsmaster, Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code 28300000
Chemical nature mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
800-336-0450

2. HAZARD IDENTIFICATION

Color gray **Physical State** Paste **Odor** Odorless

GHS
Classification

Physical Hazards
None

Health Hazard

Acute Oral Toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 3
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Reproductive Toxicity	Category 1A
Carcinogenicity	Category 1A
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H332 - Harmful if inhaled
H302 - Harmful if swallowed
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H360 - May damage fertility or the unborn child
H350 - May cause cancer
H373 - May cause 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
P260 - Do not breathe dust or fume.
P271 - Use in a well-ventilated area.
P285 - In case of inadequate ventilation wear respiratory protection
P270 - Do not eat, drink or smoke when using this product
P281 - Use personal protective equipment as required
P280 - Wear protective gloves, protective clothing and eye protection.
P272 - Contaminated work clothing should not be allowed out of the workplace
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P314 - Get medical attention/advice if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
P363 - Wash contaminated clothing before reuse
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs, get medical attention
P301+ P312 - IF SWALLOWED: Call a physician if unwell
P330 - Rinse mouth
P312 - Call a physician if unwell.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
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 %
Tin	7440-31-5	55-65
Lead	7439-92-1	30-40
Rosin	8050-09-7	.1-1
2-Methoxy-1-propanol	1589-47-5	.1-1
Resin H	65997-06-0	.1-1
Tetrahydrofurfuryl alcohol	97-99-4	.1-1

4. FIRST AID MEASURES

General advice No information available
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Skin Contact Wash off with soap and plenty of water. Wash contaminated clothing before re-use. Get medical attention if symptoms occur.
Inhalation Remove person to fresh air. If signs/symptoms continue, get medical attention.
Ingestion If swallowed, do not induce vomiting - seek medical advice. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth.
Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point The product is not flammable **Method** Not applicable
Upper No data available **Lower** No data available
Suitable Extinguishing Media
Carbon dioxide (CO2). Dry chemical. Foam. Water spray.
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, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	**Health** 3	**Flammability** 1	**Instability** 0
HMIS	**Health** 3	**Flammability** 1	**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 Wear protective gloves/clothing. Pick up and transfer to properly labeled containers.
Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Keep out of the reach of children.
Storage Keep container tightly closed.
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
Tin	TWA: 2 mg/m^3	TWA: 2 mg/m^3	100 mg/m^3 TWA: 2 mg/m^3
Lead	: 0.05 mg/m^3 TWA : 0.05 mg/m^3 TWA (as Pb)	: 50 µg/m^3 TWA : 50 µg/m^3 TWA (as Pb)	100 mg/m^3 TWA: 0.050 mg/m^3
Rosin	No data available	No data available	TWA: 0.1 mg/m^3
2-Methoxy-1-propanol	No data available	No data available	No data available
Resin H	No data available	No data available	No data available
Tetrahydrofurfuryl alcohol	No data available	No data available	No data available

Engineering Measures Use enough ventilation, local exhaust at the arc, or both to keep the fumes and gasses below the TLV's in the workers' breathing zone and the general area. Train the worker to keep his head out of the fumes. Use MSHA/NIOSH approved or equivalent fume respirator or air supplied respirator when welding in a confined space or when local exhaust or ventilation does not keep exposure below TLV. .

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 Welder's leather gloves

Respiratory Protection Use NIOSH approved respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use enough ventilation, local exhaust at the arc, or both to keep the fumes and gasses below the TLV's in the workers' breathing zone and the general area. Train the worker to keep his head out of the fumes. Use MSHA/NIOSH approved or equivalent fume respirator or air supplied respirator when welding in a confined space or when local exhaust or ventilation does not keep exposure below TLV.

General Hygiene Considerations Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste	**Viscosity**	Not applicable
Color	gray	**Odor**	Odorless
Odor Threshold	Not applicable	**Appearance**	Textured black paste
pH	Not applicable	**Specific Gravity**	No data available
Evaporation Rate	No information available	**Percent Volatile (Volume)**	No information available
VOC Content (%)	No information available	**Vapor Pressure**	1 mmHg @ 980°F
Vapor Density	Heavier than air	**Solubility**	Negligible
n-Octanol/Water Partition	No data available	**Melting Point/Range**	No data available
Decomposition Temperature	No data available	**Boiling Point/Range**	1740 °F / 949 °C
Flammability (solid, gas)	No data available		
Flash Point	The product is not flammable	**Method**	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 Exposure to air or moisture over prolonged periods

Incompatible Products Strong oxidizing agents, Strong acids and strong bases, Reducing agents, Alkali metals.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, 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

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

Oral LD50 618
Dermal LD50 No information available
Inhalation LC50
Gas No information available
Mist 4.1
Vapor No information available

Principle Route of Exposure Inhalation, Skin contact.
Primary Routes of Entry Skin Absorption, Inhalation, Ingestion.
Acute Effects
Eyes Irritating to eyes. Welding arc may damage eyes .
Skin Irritating to skin.
Inhalation Irritating to respiratory system. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Welding fumes may result in discomfort such as: dizziness, nausea, or dryness or irritation of nose, throat, or eyes. Fumes can aggravate asthma, bronchial conditions, or allergies. Individuals with allergies or impaired respiratory function may have symptoms worsen by exposure to welding fumes .
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Toxicity Prolonged exposure may cause chronic effects. Lead may damage kidney function, the blood forming system and the reproductive system. Suspect reproductive hazard - contains material which may injure unborn child.
Target Organ Effects Central Nervous System, Gastrointestinal tract, Kidney, Respiratory system, Eyes, Skin, Blood, Gingival Tissue, Reproductive System.
Aggravated Medical Conditions Kidney disorders, Blood disorders, Pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis, Central nervous system, Skin disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Tin	= 700 mg/kg (Rat)	no data available	no data available	no data available	no data available
Lead	no data available	no data available	no data available	no data available	no data available
Rosin	no data available	> 2500 mg/kg (Rabbit)	no data available	no data available	no data available
2-Methoxy-1-propanol	no data available	no data available	no data available	no data available	no data available
Resin H	> 2000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Tetrahydrofurfuryl alcohol	no data available	no data available	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tin	no data available	no data available	no data available	no data available	eyes,respiratory system,skin
Lead	no data available	no data available	no data available	no data available	GI tract, CNS, kidneys, blood, gingival tissue, eyes
Rosin	no data available	no data available	no data available	no data available	eyes,respiratory system
2-Methoxy-1-propanol	no data available	no data available	no data available	no data available	no data available
Resin H	no data available	no data available	no data available	no data available	no data available
Tetrahydrofurfuryl alcohol	no data available	no data available	no data available	no data available	no data available

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

Component	ACGIH	IARC	NTP	OSHA	Other
Tin	not applicable	not applicable	not applicable	not applicable	not applicable
Lead	A3	Group 2A	Reasonably Anticipated	X	not applicable
Rosin	not applicable	not applicable	not applicable	not applicable	not applicable
2-Methoxy-1-propanol	not applicable	not applicable	not applicable	not applicable	not applicable
Resin H	not applicable	not applicable	not applicable	not applicable	not applicable
Tetrahydrofurfuryl alcohol	not applicable	not applicable	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
Tin	no data available	no data available	no data available	no data available	N/A
Lead	no data available	LC50 = 0.44 mg/L Cyprinus carpio 96 h LC50 = 1.17 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 600 µg/L water flea 48 h	N/A

		LC50 = 1.32 mg/L Oncorhynchus mykiss 96 h			
Rosin	EC50 = 400 mg/L Desmodesmus subspicatus 72 h	no data available	EC50 = 31.5 mg/L 30 min	EC50 3.8 - 5.4 mg/L Daphnia magna 48 h	N/A
2-Methoxy-1-propanol	no data available	no data available	no data available	no data available	N/A
Resin H	no data available	no data available	no data available	no data available	N/A
Tetrahydrofurfuryl alcohol	no data available	LC50 = 3400 mg/L Chaetodonoides 48 h	no data available	no data available	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 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
Lead	7439-92-1	30-40	0.1

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tin	Not applicable	Not applicable
Lead	10 lb	Not applicable
Rosin	Not applicable	Not applicable
2-Methoxy-1-propanol	Not applicable	Not applicable
Resin H	Not applicable	Not applicable
Tetrahydrofurfuryl alcohol	Not applicable	Not applicable

U.S. State Regulations
California Proposition 65 This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Lead	7439-92-1	carcinogen developmental toxicity male reproductive toxicity female reproductive toxicity

16. OTHER INFORMATION

Prepared By	Christopher Drogin
Supercedes Date	02/09/2011
Issuing Date	07/03/2014
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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