

**Safety Data Sheet: PASTEBOND #283**

Supersedes Data 02/09/2011

Issuing Date 07/03/2014

**1. PRODUCT AND COMPANY IDENTIFICATION:**

Product Name PASTEBOND #283  
 Recommended use Soldering  
 Information on Manufacturer  
 X-ENCON by Paramasser, Div of NCH Corp.  
 P.O. Box 655238  
 Dallas, TX 75265-5238

Product Code 28300000  
 Chemical nature mixture  
 Emergency Telephone Number  
 CHEMTREC® 800-424-9300  
 Telephone Inquiry  
 800-356-0450

**2. HAZARD IDENTIFICATION:**

Color gray Physical State Paste Odor Odorless

**GHS**  
 Classification  
 Physical Hazards  
 Health Hazards  
 Acute Oral Toxicity  
 Acute Inhalation Toxicity - Dusts and Mists  
 Skin Corrosion/Irritation  
 Respiratory Sensitization  
 Skin Sensitization  
 Reproductive Toxicity  
 Carcinogenicity  
 Specific target organ systemic toxicity (repeated exposure)  
 Other Hazards  
 None

Labeling  
 Signal Word  
**DANGER**

Category 4  
 Category 4  
 Category 3  
 Category 1  
 Category 1A  
 Category 1A  
 Category 2



**Hazard Statements**  
 H332 - Harmful if inhaled  
 H318 - Causes mild skin irritation  
 H317 - May cause an allergic skin reaction  
 H360D - May damage fertility of 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  
 P271 - Do not eat, drink or smoke when using this product  
 P272 - Use in a well-ventilated area.  
 P273 - Do not release into the environment  
 P280 - Use personal protective equipment as required  
 P281 - Wear protective gloves, protective clothing and eye protection  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P284 - Wear Respirator, Gloves and any exposed skin thoroughly after handling  
 P314 - Get medical attention/advise if you feel unwell  
 P321 - Specific treatment (see supplemental first aid instructions on this label)  
 P302 + P352 - If on skin: Wash thoroughly with plenty of soap and water  
 P303 + P361 + P353 - If on skin: Wash thoroughly with plenty of soap and water  
 P305 + P351 + P338 - If in eyes: Rinse continuously with water for at least 15 minutes  
 P307 + P332 - If swallowed: Rinse mouth  
 P312 - Call a physician if unwell  
 P313 - Call a physician if you experience respiratory symptoms, call a physician if you feel unwell  
 P314 - If you experience respiratory symptoms, call a physician  
 P403 + P233 - Store in a cool, dry place  
 P501 - Dispose of contents and container to an approved waste disposal plant

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

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**3. COMPOSITION / INFORMATION ON INGREDIENTS:**

Component	CAS No	Weight %
Ink	7440-31-5	55-55
Lead	7439-92-1	30-40
Rosin	8055-08-7	-1-1
2-Methoxy-1-propanol	1589-47-5	-1-1
Rosin H	65997-08-0	-1-1
Tetrahydrofurfuryl alcohol	97-99-4	-1-1

**4. FIRST AID MEASURES:**

**General advice**  
 Eye Contact: No information available  
 Skin Contact: No information available. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.  
 Inhalation: Wash off with soap and plenty of water. Wash contaminated clothing before re-use. Get medical attention if symptoms occur.  
 Ingestion: Remove person to fresh air. If signs/symptoms continue, get medical attention. 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  
**Upper flammable limit:** No data available  
**Lower flammable limit:** No data available  
**Self-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Extinguishing media:** Sulfuric Acid, Dry Chemical, Foam, Water spray.  
**Special hazards arising from the chemical product:** Spontaneous combustion, toxic fumes, skin and mucous membranes.  
**Protective equipment and precautions for firefighters:** The product causes burns of eyes, skin and mucous membranes.  
**Fire-fighting equipment:** Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
**Fire-fighting instructions:** Wear self-protective breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
**Fire-fighting media:** Water spray, health 3, health 3, health 3.  
**Fire-fighting agent:** Health 3, health 3, health 3.  
**Fire-fighting agent:** Health 3, health 3, health 3.  
**Fire-fighting agent:** Health 3, health 3, health 3.

**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/boots. 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 Temperature:** Keep container tightly closed.  
**Storage Conditions:** Minimum Indoor, Maximum Outdoor, No information available, Refrigerated.

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION:**

Component	ACGIH TLV		OSHA PEL		NIOSH	
	TLV	TLV, 2 mg/m <sup>3</sup>	TLV, 2 mg/m <sup>3</sup>	TLV, 2 mg/m <sup>3</sup>	TLV, 2 mg/m <sup>3</sup>	TLV, 2 mg/m <sup>3</sup>
Lead	0.05 mg/m <sup>3</sup> TWA, 0.05 mg/m <sup>3</sup> TWA (as Pb)	0.05 mg/m <sup>3</sup> TWA, 50 µg/m <sup>3</sup> TWA (as Pb)	0.05 mg/m <sup>3</sup> TWA, 50 µg/m <sup>3</sup> TWA (as Pb)	0.05 mg/m <sup>3</sup> TWA, 50 µg/m <sup>3</sup> TWA (as Pb)	0.05 mg/m <sup>3</sup> TWA, 50 µg/m <sup>3</sup> TWA (as Pb)	0.05 mg/m <sup>3</sup> TWA, 50 µg/m <sup>3</sup> TWA (as Pb)
Rosin	No data available	No data available	No data available	No data available	No data available	No data available
Zn dibutyltin diacetate	No data available	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	No data available

Engineering Measures

Use enough ventilation, local exhaust at the arc, or both to keep the fumes and gases below the TLVs 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

Wear a helmet or use face shield with filter lens of appropriate shade number (SEE ANSI S34.4). 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.

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 gases below the TLVs 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. 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.

General Hygiene Considerations

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste	Viscosity	No data available
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 @ 98°F
Vapor Density	Heavier than air	Stability	Stable
n-Octanol/Water Partition Coefficient	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	Method	Not applicable
Flash Point	The product is not flammable		
Autoignition Temperature	No information available		
Upper No data available	No data available		

10. STABILITY AND REACTIVITY

Chemical Stability

Conditions to Avoid

Stable. Exposure to air or moisture over prolonged periods. 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 procedure 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 conditions on the metal being welded, the number and size of burners used, the work space, the quality and amount of ventilation used, the position of the operator in relation to the time 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 amount 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/ANSI F.1 Method for Sampling Airborne Particles Generated By Welding And Allied Processes, Atlanta, FL 33135.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Product Information

11. TOXICOLOGICAL 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 No information available  
 Gas No information available  
 Mist 4.1  
 Vapor No information available

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic Toxicity

Target Organ Effects

Aggravated Medical Conditions

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Dinites Test	Other
Tin	= 710 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
Resin	no data available	> 2500 mg/kg (Rabbit)	no data available	no data available	no data available
2-Methoxy-1-propanol	> 2000 mg/kg (Rat)	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
Tetrahydrofuran Alcohol	no data available	no data available	no data available	no data available	no data available

Component

Tin

Lead

Resin

2-Methoxy-1-propanol

Resin H

Tetrahydrofuran Alcohol

Chronic Toxicity

Component

Lead

Resin

2-Methoxy-1-propanol

Resin H

Tetrahydrofuran Alcohol

Chronic Toxicity

Component

Lead

Resin

2-Methoxy-1-propanol

Resin H

Tetrahydrofuran Alcohol

Chronic Toxicity

Component

Lead

Resin

2-Methoxy-1-propanol

Resin H

Tetrahydrofuran Alcohol

Chronic Toxicity

Component

Lead

Resin

2-Methoxy-1-propanol

Resin H

Tetrahydrofuran Alcohol

Chronic Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Dinites Test	Other
Tin	no data available	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
Resin	no data available	> 2500 mg/kg (Rabbit)	no data available	no data available	no data available
2-Methoxy-1-propanol	> 2000 mg/kg (Rat)	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
Tetrahydrofuran Alcohol	no data available	no data available	no data available	no data available	no data available

Product Information

No information available.

12. ECOLOGICAL INFORMATION

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Fleas	Bog Prow
Tin	no data available	no data available	no data available	no data available	N/A
Lead	no data available	no data available	no data available	no data available	N/A

Resin	EC50 = 400 mg/L Dermatotoxic subcutaneous 72h	LC50 = 1.22 mg/L Oocyte/inchwe myxus 96 h no data available	EC50 = 31.5 mg/L 30 min no data available	EC50 3.3 - 5.4 mg/L Dephns mrga 48 h no data available	N/A
2-Methoxy-1-propanol Resin H	no data available no data available	no data available no data available	no data available no data available	no data available no data available	N/A
Tetrahydrofuran alcohol	no data available	LC50 = 3400 mg/L Chavebdomide 48 h	no data available	no data available	N/A

Persistence and Degradability  
Bioaccumulation  
Mobility

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

**1.3. 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.

**1.4. TRANSPORT INFORMATION:**

DOT: Not regulated  
TDG: Not regulated  
ICAO: Not regulated  
IATA: Not regulated  
IMDGMO: Not regulated

**1.5. REGULATORY INFORMATION:**

Inventories: TSCA, DSEL, U.S. Federal Regulations  
Complies

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 b	Not applicable
Resin	Not applicable	Not applicable
2-Methoxy-1-propanol	Not applicable	Not applicable
Resin H	Not applicable	Not applicable
Tetrahydrofuran alcohol	Not applicable	Not applicable

U.S. State Regulations  
California Proposition 65

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

**1.6. OTHER INFORMATION:**

Prepared By: Christopher Drogin  
Supersedes Date: 02/09/2014  
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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