

# Safety Data Sheet 287 GENERAL PURPOSE SOLDER

Supersedes Date 07/07/2013

Issuing Date 05/10/2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** 287 GENERAL PURPOSE SOLDER

**Recommended use** Soldering

**Information on Manufacturer**

X-ERGON by Partsmaster, Div of NCH Corp.

P.O. Box 655326

Dallas, TX 75265-5326

**Product Code** 28740000

**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

Health Hazard

Acute Oral Toxicity

Acute toxicity - Inhalation (Dusts/Mists)

Reproductive Toxicity

Carcinogenicity

Specific target organ toxicity (repeated exposure)

Category 4

Category 4

Category 1A

Category 2

Category 2

Other hazards

None

**Labeling**

Signal Word

**DANGER**



Hazard statements

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H351 - Suspected of causing cancer

H360 - May damage fertility or the unborn child

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.

P281 - Use personal protective equipment as required

P280 - Wear protective gloves, protective clothing and eye protection.

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

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

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

P301 + P312 - IF SWALLOWED: Call a physician if unwell

P330 - Rinse mouth

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a physician if unwell.

P405 - Store locked up

P501 - Dispose of contents and container in accordance with applicable local regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight % *
Tin	7440-31-5	30-60
Lead	7439-92-1	30-60

\*The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

<b>General advice</b>	Do not get in eyes, on skin or on clothing. Do not breathe dust or fume.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash affected areas with large amounts of soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if irritation persists. Wash clothing and clean shoes before re-use.
<b>Inhalation</b>	Remove person to fresh air. If signs/symptoms continue, get medical attention. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth with water. Get medical attention immediately. Rinse mouth.
<b>Notes to physician</b>	Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	The product is not flammable	<b>Method</b>	Seta closed cup
<b>Upper:</b>	No data available	<b>Lower:</b>	No data available
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	The product causes burns of eyes, skin and mucous membranes.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health 2</b>	<b>Flammability 0</b>	<b>Instability 0</b>
<b>HMIS</b>	<b>Health 2</b>	<b>Flammability 0</b>	<b>Instability 0</b>

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	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. Use personal protective equipment.
<b>Environmental Precautions</b>	Prevent product from contaminating soil or from entering sewage, drainage systems, and bodies of water. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
<b>Methods for Containment</b>	Pick up and arrange disposal without creating dust.
<b>Methods for Cleaning Up</b>	Shovel or vacuum any spilled material into a suitable container. Alloy wastes are normally collected to recover metal value.
<b>Neutralizing Agent</b>	Not applicable.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Wear personal protective equipment.			
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.			
<b>Storage Temperature</b>	<b>Minimum</b>	No information available	<b>Maximum</b>	No information available
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b> <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Tin	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	100 mg/m <sup>3</sup> TWA: 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)	: 50 µg/m <sup>3</sup> TWA : 50 µg/m <sup>3</sup> TWA (as Pb)	100 mg/m <sup>3</sup> TWA: 0.050 mg/m <sup>3</sup>

<b>Engineering Measures</b>	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.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	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.
<b>Skin Protection</b>	Welder's leather gloves.

**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**

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid	<b>Viscosity</b>	Not applicable
<b>Color</b>	Gray	<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	No information available.
<b>pH</b>	Not applicable	<b>Specific Gravity</b>	9.0
<b>Evaporation Rate</b>	No information available	<b>Percent Volatile (Volume)</b>	No information available
<b>VOC Content (%)</b>	No information available.	<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	Not applicable	<b>Solubility</b>	Insoluble
<b>n-Octanol/Water Partition</b>	No data available	<b>Melting Point/Range</b>	°F / 227 °C
<b>Decomposition Temperature</b>	No data available	<b>Boiling Point/Range</b>	No data available
<b>Flammability (solid, gas)</b>	No data available	<b>Method</b>	Seta closed cup
<b>Flash Point</b>	The product is not flammable		
<b>Autoignition Temperature</b>	No information available.		
<b>Upper:</b> No data available	<b>Lower:</b> No data available		

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Products</b>	Oxidizing agents (strong), Reducing agents, Acids, Alkalis.
<b>Decomposition Temperature</b>	No data available
<b>Hazardous Decomposition Products</b>	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.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.

### 11. TOXICOLOGICAL INFORMATION

<b>Product Information</b>	No information available.
<b>The following values are calculated based on chapter 3.1 of the GHS document</b>	
<b>Oral LD50</b>	616
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	1.5
<b>Vapor</b>	No information available
<b>Principle Route of Exposure</b>	Eye contact, Skin contact, Inhalation, Ingestion.
<b>Primary Routes of Entry</b>	Skin Absorption, Skin contact, Ingestion.
<b>Acute Effects:</b>	
<b>Eyes</b>	Irritating to eyes. Causes irritation seen as stinging, tearing, and redness. Welding arc may damage

<b>Skin</b>	eyes. Irritating to skin. May cause allergic skin reactions seen as delayed skin rash which may be followed by blistering, scaling, and other skin effects.
<b>Inhalation</b>	Toxic by inhalation. Irritating to respiratory system.
<b>Ingestion</b>	Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic Toxicity</b>	Prolonged exposure may cause chronic effects. Lead may damage kidney function, the blood forming system and the reproductive system.
<b>Target Organ Effects</b>	Blood, Kidney, Lungs, Reproductive System, Peripheral Nervous System (PNS), Gastrointestinal tract, Skin, Eyes, Central nervous system.
<b>Aggravated Medical Conditions</b>	Kidney disorders, Central nervous system, Pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis.

## Component Information

**Acute Toxicity**

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Tin 7440-31-5	= 700 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
Tin 7440-31-5	No data available	No data available	No data available	No data available	Skin Eyes Respiratory system
Lead 7439-92-1	No data available	No data available	Yes	Yes	Blood Gastrointestinal tract Central nervous system Eyes Kidney

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

Component	ACGIH	IARC	NTP	OSHA	Other
Lead 7439-92-1	A3	Group 2A	Reasonably Anticipated	X	not applicable

**12. ECOLOGICAL INFORMATION**

Product Information No information available.

## Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	log Pow
Lead	No information available.	LC50 = 0.44 mg/L Cyprinus carpio 96 h LC50 = 1.17 mg/L Oncorhynchus mykiss 96 h LC50 = 1.32 mg/L Oncorhynchus mykiss 96 h	No information available	600: 48 h water flea µg/L EC50	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	30-60	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

None

Component	Hazardous Substances RQs	CERCLA EHS RQs
Lead	10 lb	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
Supersedes Date	07/07/2013
Issuing Date	05/10/2016
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.