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MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
Trade Name:	OATEY #5 PASTE FLUX
Product No.:	30011, 30013, 30014, 30038, 30041, 53017, 53200, 48420, 48421,
	48422, 48423, 48307, 48390, 48391, 48392, 48393
Product Use:	Flux for soldering.
Formula:	See Section 2
Synonyms:	Flux for Soldering Copper Pipe
Firm Name &	OATEY CO. 4700 West 160th Street P.O. Box 35906 Cleveland,
Mailing Address:	Ohio 44135, U.S.A. http://www.oatey.com
Oatey Phone Number:	(216) 267-7100 or (800) 321-9532
Emergency Phone	For Emergency First Aid call 1-303-623-5716 COLLECT. For
Numbers:	chemical transportation emergencies ONLY, call Chemtrec at
	1-800-424-9300. Outside the U.S. 1-703-527-3887.
Prepared By:	Technical Department
Preparation Date:	April 14, 2017
SECTION 2	COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION/INFORMATION ON INGREDIENTS INGREDIENTS: % wt/wt: CAS NUMBER: ACGIH TLV TWA: OSHA PEL TWA: 60 - 1008 8009-03-8 Petrolatum 5 mg/m3 5 mg/m3(oil mist) (oil mist) Zinc Chloride 10 - 30% 1 mg/m3(fume) 1 mg/m3(fume)7646-85-7 2 mg/m3 STEL

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview:

Ammonium Chloride

Yellow paste with a slight odor. May cause burns to the eye and skin. Inhalation of fumes may cause respiratory irritation, metal fume fever, chills, nausea and vomiting. Swallowing may cause burns to the mouth or throat, vomiting, diarrhea and kidney or liver disorders. May be harmful if swallowed. Symptoms may be delayed.

12125-02-9

OSHA Hazard Classification:

Corrosive, target organ effects

10 mg/m3 (fume) None

20 mg/m3 STEL Established

SECTION 4 FIRST AID MEASURES

CALL 1-303-623-5716 COLLECT

1 - 5%

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Call a physician or poison control center if irritation persists.

- Eyes: Remove contact lenses if any. Rinse eyes with water for 15 minutes. Get immediate medical attention.
- Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Call a poison control center or physician immediately.
- Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

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SECTION 5	FIRE FIGHTING MEASURES
Flashpoint / Method	: 540 Degrees F (282 Degrees C)
Flammability:	LEL = Not determined, UEL = Not determined
Extinguishing	Small Fires: Use dry chemical, CO2, water, or foam extinguisher
Media:	Large Fires: Evacuate area and call Fire Department immediately
Special Fire	Firefighters should wear positive pressure self-contained
Fighting	breathing apparatus and full protective clothing for fires in
Procedure:	areas where chemicals are used or stored
Unusual Fire and	None known.
Explosion	
Hazards:	
Hazardous	Hydrocarbons, hydrogen chloride, zinc fumes, ammonia, smoke,
Decomposition	carbon monoxide, carbon dioxide and nitrogen oxides.
Products:	

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill or Ventilate area. Stop leak if it can be done without risk. Personnel Leak cleaning up the spill should wear appropriate personal protective Procedures: equipment. Take up spill with sand, earth or other absorbent material and place into a clean, dry leak-proof container.

SECTION 7 HANDLING AND STORAGE

 Handling: Do not get in eyes. Do not get on skin or clothing. Do not take internally. Avoid breathing vapors or fumes. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed when not in use. Handle with care. Keep out of reach of children.
Storage: Store in original, labeled container.

Other: Containers, even empty will retain residue and may be harmful.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ventilation: Good general ventilation (equivalent to outdoors) should be adequate for normal use. For operations where the TLV may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.
- Respiratory For operations where the TLV may be exceeded, a NIOSH approved Protection: particulate respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus. Skin Wear rubber gloves.

ONITI	Near rabber groves.
Protection:	
Еуе	Safety glasses with sideshields or safety goggles.
Protection:	
Other:	Eve wash and safety shower should be available.

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SECTION 9 PH	HYSICAL AND CHEMICAL PROPERTIES
Boiling Point:	638 Degrees F (337 Degrees C)
Melting Point:	Not determined
Vapor Pressure:	Not determined
Vapor Density:	(Air = 1) Greater than 1
Volatile Components:	7-10%
Solubility In Water:	Negligible
рН:	Not applicable
Specific Gravity:	1.1
Evaporation Rate:	Not applicable
Appearance:	Yellow Paste
Odor:	Very little odor
Will Dissolve In:	Methylene Chloride
Material Is:	Paste

SECTION 10 Stability:

STABILITY AND REACTIVITY

Stability:Stable.Conditions To Avoid:None.HazardousHydrocarbons, hydrogen chloride, zinc fumes, ammonia, smoke,
smoke, carbon monoxide, carbon dioxide and nitrogen oxides.Products:Incompatibility/Incompatibility/Strong oxidizing agents, potassium, cyanides and sulfides.Materials To Avoid:Will not occur.Polymerization:

SECTION 11 TOXICOLOGICAL INFORMATION

DECITOR II	TOXICOLOGICAL INFORMATION
Inhalation:	Fumes from heated product may be corrosive to mucous membranes and the respiratory system. Fumes may cause burning sensation, coughing, wheezing, shortness of breath, cyanosis, fever, chills,
	muscular pain, anemia, metallic taste in the mouth, headache, nausea, vomiting, sweating, diarrhea and pulmonary edema. Fumes may cause stannosis, a mild benign pneumoconiosis. Repeated
	inhalation of fumes may cause occupational asthma. Symptoms may be delayed.
Skin:	Contact may cause irritation, ulcerations, burns or dermatitis. Symptoms may be delayed.
Eye:	Vapors or fumes may cause redness, pain, blurred vision and corneal damage. Direct contact may cause burns and eye damage with possible blindness. Symptoms may be delayed.
Ingestion:	May cause irritation or burns to the mouth and throat, nausea, vomiting or diarrhea. Death may occur from strictures of the esophagus and pylorus. Symptoms may be delayed.
Toxicity Data:	Petrolatum: No data available Zinc Chloride: Oral rat LD50: 350 mg/kg Ammonium Chloride: Oral rat LD50: 1,650 mg/kg
Sensitization: Carcinogenicity:	None of the components are known to cause sensitization. None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.
Mutagenicity: Reproductive Toxicity:	None of the components have been found to be mutagenic. None of the components are known to cause adverse reproductive effects.
Medical Conditions Aggravated By Exposure:	Persons with pre-existing skin, lung, kidney or liver disorders may be at increased risk from exposure to this product.

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SECTION 12 ECOLOGICAL INFORMATION

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with federal, state, and local regulations. It is the responsibility of the end-user to determine at the time of disposal of the product. RCRA Hazardous Waste Number: None EPA Hazardous Waste ID Number: None EPA Hazard Waste Class: None

SECTION 14 TRANSPORT INFORMATION

201	
Proper Shipping Name:	Not regulated
Hazard Class/Packing Group:	None
UN/NA Number:	None
Hazard Labels:	None
IMDG	
Proper Shipping Name:	Not regulated
	NOC LEGULACEU
Hazard Class/Packing Group:	None
1 11 5	2
Hazard Class/Packing Group:	None

2004 North American Emergency Response Guidebook Number: 153 or 154

SECTION 15 REGULATORY INFORMATION

Hazard Category for Section Acute Health, Chronic Health 311/312: This product does not contain chemicals regulated Section 302 Extremely Hazardous Substances (TPQ): under SARA Section 302. Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: Chemical CAS # % wt Zinc Chloride 7646-85-7 10-30% Spills of this product over the RQ (reportable CERCLA 103 Reportable quantity) must be reported to the National Response Quantity: Center. The RQ for the product, based on the RQ for Zinc Chloride (30% max) of 1,000 lbs, is 3,300 lbs. Chemical CAS # RQ, lbs. Zinc Chloride 7646-85-7 1,000 Ammonium Chloride 12125-02-6 5,000 Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. California Proposition 65: This product does not contain chemicals regulated under California Proposition 65. TSCA Inventory: All of the components of this product are listed on the TSCA inventory. Canadian WHMIS Classification: Class E; Class D, Division 2, Subdivision B This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the

information required by the CPR.

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SECTION 16 OTHER INFORMATION NFPA and HMIS:

NFPA Hazard Signal: Health: 3 Flammability: 1 Reactivity: 0 Special: None HMIS Hazard Signal: Health: 3* Flammability: 1 Reactivity: 0 PPE: B

DISCLAIMER

The information herein has been compiled from sources believed to be reliable, upto-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.