

QATEY WATER SOLUBLE TINNING FLUX

Latest Revision Date...09/21/98 Date of Issue.....03/24/00

SECTION 1 IDENTITY OF MATERIAL

TRADE NAME..... QATEY H-20 (95) WATER SOLUBLE TINNING FLUX
 PRODUCT NUMBERS... 30140, 30141, 30142, 30143, 50690, 50691, 53068
 FORMULA..... N/A
 SYNONYMS..... Tinning Flux for Copper Pipe

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENTS	%	CAS NUMBER	SEC 313
Surfactant Blend (Non-Hazardous)	20-50%	N/A	No
Inert Fillers (Non-Hazardous)	10-35%	N/A	No
Triethanolamine Hydrochloride	4-10%	637-39-8	No
Zinc Chloride	2- 5%	7646-85-7	Yes
Tin	5-8%	7440-31-5	No

SECTION 3 KNOWN HAZARDS UNDER 29 CFR 1910.1200

HAZARDS	YES	NO	HAZARDS	YES	NO
Combustible Liquid		x	Skin Hazard	x	
Flammable Material		x	Eye Hazard	x	
Pyrophoric Material		x	Toxic Agent		x
Explosive Material		x	Highly Toxic Agent		x
Unstable Material		x	Sensitizer		x
Water Reactive Material		x	Kidney Toxin		x
Oxidizer		x	Reproductive Toxin		x
Organic Peroxide		x	Blood Toxin		x
Corrosive Material	x		Nervous System Toxin	x	
Compressed Gas		x	Lung Toxin		x
Irritant	x		Liver Toxin		x
Carcinogen NTP/IARC/OSHA		x			

SECTION 4 REGULATION

CHEMICAL	TLV (TWA)	PEL (Transitional Limits)	STEL	Hazard Action Level
Surfactant Blend	N/A	N/A	N/A	N/A
Zinc Chloride	1 mg/cu m	1 mg/cu m	2 mg/cu m	N/A
Triethanolamine Hydrochloride	(Not Available)			
Tin	2.0 mg/cu m	2.0 mg/cu m	N/A	N/A

SECTION 5 REGULATED IDENTIFICATION

DOT PROPER SHIPPING NAME..... N/A
 DOT HAZARD CLASS..... N/A
 SHIPPING ID NUMBER..... N/A
 EPA HAZARDOUS WASTE ID NUMBER... D-002
 EPA HAZARD WASTE CLASS..... Corrosive

SECTION 6 EFFECTS OF EXPOSURE

ENTRY ROUTE..... INHALE - Yes INGEST - Yes SKIN - Yes EYE - Yes
 INHALATION..... If heated, fumes may produce respiratory irritation, fever, chills, muscular pain, vomiting and sweating.
 SKIN..... Contact may cause irritation, burns or dermatitis.
 EYE..... May cause irritation, burns or corneal damage.
 INGESTION..... May cause burns of mouth and throat, vomiting, diarrhea, strictures, kidney disease, shock and death.
 TARGET ORGANS... Eye, Skin, Central Nervous System

SECTION 7 EMERGENCY AND FIRST AID PROCEDURES - 303/628-5716 COLLECT

SKIN..... If irritation arises, wash thoroughly with soap and water. Seek medical attention if irritation persists.
 EYES..... If fumes cause irritation, move to fresh air and irrigate eyes with water for 15 minutes. If irritation persists, seek medical attention. If eye is struck with wire, seek 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.... Drink water and call a poison control center or physician immediately. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

(Continued on next page)

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SECTION 8

PHYSICAL AND CHEMICAL PROPERTIES

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HAZARD SIGNAL..... HEALTH      2      STABILITY      0      FLAMMABILITY    1      SPECIAL      None
BOILING POINT..... N/A
MELTING POINT..... N/A
VAPOR PRESSURE..... N/A
VAPOR DENSITY (AIR = 1)... >1
VOLATILE COMPONENTS..... 7 - 10%
SOLUBILITY IN WATER..... Flux-Soluble; Metal-Insoluble
PH..... N/A
SPECIFIC GRAVITY..... N/A
EVAPORATION RATE..... N/A
APPEARANCE..... Gray Paste
ODOR..... Very little odor
WILL DISSOLVE IN..... Flux-Water; Metal-Acids
MATERIAL IS..... Paste

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SECTION 9

FIRE AND EXPLOSION HAZARD DATA

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FLAMMABILITY..... LEL = N/A UEL = N/A
FLASHPOINT AND METHOD USED..... N/A
STABILITY..... Stable CONDITIONS TO AVOID: None HAZARDOUS DECOMP. PDTS.: Hydrocarbons, HCl, CO, CO(2),
Smoke
HAZARDOUS POLYMERIZATION..... Will not occur.
INCOMPATIBILITY/MAT. TO AVOID..... N/A
SPECIAL FIRE FIGHTING PROCEDURE... FOR SMALL FIRES: Use dry chemical, CO(2), water or foam extinguisher. FOR LARGE FIRES:
Evacuate area and call Fire Department immediately.

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SECTION 10

SPILL AND DISPOSAL INFORMATION

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SPILL OR LEAK PROCEDURES... Ventilate area, stop leak if it can be done without risk. Take up with sand, earth or other
absorbing material and place in a clean, dry leak-proof container.
WASTE DISPOSAL..... Dispose of according to local, state and federal regulations.

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SECTION 11

SAFE USAGE DATA

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PROTECTIVE EQUIPMENT TYPES... EYES: Safety glasses with shields. RESPIRATORY: If soldering in an enclosed area, use NIOSH
approved canister. GLOVES: Rubber gloves. OTHER: Normal and good hygiene practices.
VENTILATION..... GENERAL MECHANICAL: Use in closed areas. LOCAL EXHAUST: Open doors and windows.
PRECAUTIONS..... HANDLING AND STORAGE: Do not store near heat.

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SECTION 12

MANUFACTURER OR SUPPLIER DATA

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FIRM NAME & MAILING ADDRESS... QATEY CO., 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135
QATEY PHONE NUMBER..... (216) 267-7100
EMERGENCY PHONE NUMBER..... (303) 623-5716 COLLECT

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SECTION 13

DISCLAIMER

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