



Material Safety Data Sheet

Issue Date: 18-DEC-2009
Supersedes: 29-MAY-2009

FERROQUEST LP7202

1 Identification

Identification of substance or preparation
FERROQUEST LP7202

Product Application Area
Chemical cleaning compound.

Company/Undertaking Identification
GE Betz, Inc.
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Trevose, PA 19053
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Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 18-DEC-2009

2 Hazard(s) identification

EMERGENCY OVERVIEW

DANGER

Corrosive to skin. Corrosive to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard: Corrosive to skin/steel
Odor: Pungent; Appearance: Yellow To Amber, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; Corrosive to skin.

ACUTE EYE EFFECTS:
Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:
Primary route of exposure;Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:

May cause severe irritation or burning of the gastrointestinal tract.

TARGET ORGANS:

No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
*	(E03G)ORGANIC ACID;TSRN 125438 - 11017 Irritant (eyes and skin)	*
*	(E195)ORGANIC ACID;TSRN 125438 - 5118P Irritant (eyes and skin)	*
124-04-9	ADIPIC ACID (HEXANEDIOIC ACID) Potential irritant (eyes)	7-13
*	(E03L)ORGANIC ACID;TSRN 125438 - 11018 Irritant (eyes and skin)	*

4 First-aid measures

SKIN CONTACT:

URGENT! Wash thoroughly with soap and water for at least 30 minutes. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

EYE CONTACT:

URGENT! Immediately flush eyes with water for 30 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

INHALATION:

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration.

NOTES TO PHYSICIANS:

Material is corrosive. It may not be advisable to induce vomiting.
Possible mucosal damage may contraindicate the use of gastric lavage.

5 Fire-fighting measures

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of carbon

FLASH POINT:

> 200F > 93C P-M(CC)

MISCELLANEOUS:

Corrosive to skin/steel
UN 3265;Emergency Response Guide #153

6 Accidental release measures

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7 Handling and storage

HANDLING:

This material may be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

STORAGE:

Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers.

8 Exposure controls / personal protection

EXPOSURE LIMITS**CHEMICAL NAME**

(E03G)ORGANIC ACID;TSRN 125438 - 11017

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

(E195)ORGANIC ACID;TSRN 125438 - 5118P

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

ADIPIC ACID (HEXANEDIOIC ACID)
PEL (OSHA): NUISANCE DUST
TLV (ACGIH): 5 MG/M3
MISC: Note: manufacturer's recommended exposure limit: 10 mg/m3.

(E03L)ORGANIC ACID;TSRN 125438 - 11018
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:

Adequate ventilation to maintain air contaminants below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I

RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with organic vapor cartridges.

SKIN PROTECTION:

gauntlet-type neoprene gloves, chemical resistant apron--
Wash off after each use. Replace as necessary.

EYE PROTECTION:

airtight chemical goggles

9 Physical and chemical properties

Spec. Grav. (70F,21C)	1.143	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	26	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-3		
Viscosity(cps 70F,21C)	ND	% Solubility (water)	100.0

Odor	Pungent
Appearance	Yellow To Amber
Physical State	Liquid
Flash Point	P-M(CC) > 200F > 93C
pH As Is (approx.)	< 1.0
Evaporation Rate (Ether=1)	< 1.00
Percent VOC:	0.0

NA = not applicable ND = not determined

10 Stability and reactivity

CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with strong bases may cause a violent reaction releasing heat.

INCOMPATIBILITIES:

May react with bases or strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of carbon

11 Toxicological information

Oral LD50 RAT: 2,708 mg/kg
NOTE - Calculated value
Dermal LD50 RABBIT: >5,000 mg/kg
NOTE - Estimated value
Ames Assay : Negative
Non-Ames Mutagenicity : Pos/Neg

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Acute Bioassay (pH adjusted)
LC50= 3350; No Effect Level= 500 mg/L
Fathead Minnow 96 Hour Static Acute Bioassay (pH adjusted)
LC50= 1440; No Effect Level= 500 mg/L
Rainbow Trout 96 Hour Static Bioassay with 48-Hour Renewal (pH adjusted)
LC50= 1410; No Effect Level= 1000 mg/L

BIODEGRADATION

BOD-28 (mg/g): 179
BOD-5 (mg/g): 122
COD (mg/g): 600
TOC (mg/g): 272

13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D002=Corrosive(pH, steel).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14 Transport information

Transportation Hazard: Corrosive to skin/steel
DOT: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(DIBASIC ACID)
8, UN 3265, PG III (ADIPIIC ACID) RQ
DOT EMERGENCY RESPONSE GUIDE #: 153
Note: Some containers may be DOT exempt, please check BOL for exact container classification
IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(DIBASIC ACID)
8, UN 3265, PG III
IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(DIBASIC ACID)
8, UN 3265, PG III

15 Regulatory information

TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

6,109 gallons due to ADIPIC ACID (HEXANEDIOIC ACID);

NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: Not Registered

SARA SECTION 312 HAZARD CLASS:

Immediate(acute)

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS vII

CODE TRANSLATION

Health	3	Serious Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
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MSDS status:	11-FEB-1997		** NEW **
	25-FEB-1997	12	11-FEB-1997
	28-FEB-1997	16	25-FEB-1997
	21-NOV-1997	3	28-FEB-1997
	13-AUG-1998	12	21-NOV-1997
	21-SEP-1998	12	13-AUG-1998
	01-APR-1999	15	21-SEP-1998
	23-OCT-2003	12	01-APR-1999
	07-APR-2006	2,3,4,8	23-OCT-2003
	19-APR-2006	3,4,5,8,14,16	07-APR-2006
	07-JUN-2006	2,8,15	19-APR-2006
	08-SEP-2006	4	07-JUN-2006
	29-MAY-2009	10	08-SEP-2006
	18-DEC-2009	4,11	29-MAY-2009