SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Regular Decalcifier**

SYNONYMS: Regular Cal. Gentle Decalcifier

CATALOG CODES: VSD MANUFACTURER: Volu-Sol

ADDRESS: 5095 West 2100 South

Salt Lake City, UT 84120

EMERGENCY PHONE: (800) 535-5053 OTHER CALLS: (801) 974-9474 (801) 974-9553 FAX:

CHEMICAL FAMILY: CHEMICAL FORMULA: PREPARED BY: Volu-Sol

RECOMMENDED USE: Laboratory chemical

RESTRICTIONS ON USE: Use as recommended

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification: Flammable Liquids (Category 4) Skin Corrosion (Category 1A) Serious Eye Damage (Category 1)

GHS LABEL ELEMENTS:

Pictogram: Signal Word: Danger Hazard Statement(s):

H227 Combustible liquid

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary Statement(s):

Keep away from heat/sparks/open flames/hot P210

surfaces. No smoking

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/

spray

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/ eye protection/ face

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with

water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep

> at rest in a position comfortable for breathing IF IN EYES: Rinse cautiously with water for several

P305+P351+P338

minutes. Remove contact lenses, if present and

easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/

P321 Specific treatment (see supplemental first aid

instructions on this label)

Wash contaminated clothing before reuse P370+P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam for extinction

P403+P235 Store in a well-ventilated place. Keep cool

P405 Store locked up P501

Dispose of contents/container to an approved

waste disposal plant

OTHER HAZARDS: -

P310

P363

HMIS Classification: Health hazard: Chronic health hazard: 0 Flammability: **Physical hazards:** 0 **NFPA Rating:** Health hazard: 3

Fire: 0 Reactivity Hazard: n

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO. EC-NO. Index-NO.
	64-18-6
Formic Acid (10-30%)	200-579-1
	607-001-00-0

SECTION 4: FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician

INGESTION: If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

SKIN: Take off contaminated clothing and shoes immediately. Wash off wish soap and plenty of water. Consult a physician

EYE: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Percentage by Volume

> Upper: -% Lower: -%

FLASH POINT:

AUTOIGNITION TEMPERATURE:

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon

FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

FIRE AND EXPLOSION HAZARDS: Use water spray to cool unopened containers

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use personal protective equipment. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Dispose of in accordance with local regulations. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The number to contact the US Coast Guard National Response Center is (800) 424-8802

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Vent periodically. Handle and open container with care. Hygroscopic. Refrigerate before opening. No smoking

INCOMPATIBILITES: Strong oxidizing agents, strong bases, powdered

metals

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Reported in a time-weighted average (TWA)

Component	Component CAS-No. Reference		OSHA		ACGIH	
Component	CAS-NO.	Reference	ppm	mg/m³	ppm	mg/m³
Formic Acid 64-18-6		5	9	5	9	
	04-10-0	PEL	PEL	TLV	TLV	

VENTILATION SYSTEM: Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, *Industrial Ventilation: A Manual of Recommended Practices*, for details

PERSONAL RESPIRATORS: If exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapour respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier; whichever is lowest. A full-face piece organic vapour respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face, positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

SKIN PROTECTION: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

EYE PROTECTION: Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Maintain eye wash fountain and quick-drench facilities in work area

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended conditions of use and

storage

CONDITIONS TO AVOID: Heat, flames, ignition sources

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No data available

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: No data available Skin/Eye Irritation: No data available

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen

ROUTES OF ENTRY: Inhalation/Ingestion/Skin

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Toxicity: No data available

Persistence and degradability: No data available Mobility in soil: No data available

PBT/vPvB Results: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is combustible. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in an RCRA approved waste facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements. Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

US DOT	IATA	IMDG/IMO
Shipping Name:	Shipping Name:	Shipping Name:
Formic Acid Solution	Formic Acid Solution	Formic Acid Solution
Hazard Class:	Hazard Class:	Hazard Class:
8	8	8
UN Number:	UN Number:	UN Number:
3412	3412	3412
Packing Group:	Packing Group:	Packing Group:
II	II	II

SECTION 15: REGULATORY INFORMATION

SARA 302	-	
SARA 313	64-18-6	
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard	
Right to know lists: MA: 64-18-6 State PA: 6132-04-3, 64-18-6, 7732-18-5 NJ: 6132-04-3, 64-18-6, 7732-18-5 California Prop. 65 Components:		

SECTION 16: OTHER INFORMATION

Disclaimer: The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.