I. PRODUCT IDENTIFICATION

PRODUCT NAME: NitroVar & Nitrile Reagent
CAS NO.: NA
CHEMICAL NAME: Not applicable
FORMULA: Not applicable
CHEMICAL FAMILY: Not applicable
MSDS NUMBER: 50042

II. INGREDIENTS

Sodium Sulfate, Anhydrous
PCT: <60
CAS NO.: 7757-82-6
SARA: NOT LISTED
TLV: Not established
PEL: Not established
HAZARD: May cause irritation

1,2-Cyclohexanediiminetetraacetic Acid, Trisodium Salt (CDTA-Na)
PCT: <20
CAS NO.: 8679-96-6
SARA: NOT LISTED
TLV: Not established
PEL: Not established
HAZARD: Toxicity unknown; may cause irritation

Potassium Phosphate, Monobasic
PCT: <20
CAS NO.: 7776-77-9
SARA: NOT LISTED
TLV: Not established
PEL: Not established
HAZARD: Moderately toxic; may cause irritation

Cadmium
PCT: <10
CAS NO.: 7440-43-5
SARA: LISTED
TLV: 0.05 mg/MS
PEL: 0.05 mg/MS
IARC: LISTED
HTP: LISTED
HAZARD: Very toxic; recognized carcinogen; may cause irritation

Magnesium Sulfate Heptahydrate
PCT: <10
CAS NO.: 7487-58-9
SARA: NOT LISTED
TLV: Not established
PEL: Not established
HAZARD: Moderately toxic; may cause irritation

Potassium Pyrosulfate
PCT: <10
CAS NO.: 7790-62-7
SARA: NOT LISTED
TLV: Not established
PEL: Not established
HAZARD: Causes eye burns

Other components, each
PCT: <1
CAS NO.: NA
SARA: NOT LISTED
TLV: Not applicable
PEL: Not applicable
HAZARD: Not applicable

Any component of this mixture not specifically listed (e.g., "other components") is not considered to present a carcinogenic hazard.

III. PHYSICAL DATA

STATE: solid
APPEARANCE: Blue metallic powder
ODOR: None
SOLUBILITY IN: Water: Partially soluble
ACID: Partially soluble
OTHER: Not determined
BOILING POINT: NA
MELTING POINT: >200°C decomp
SPEC GRAVITY: 2.377
pH of 1% soln.: 4.2
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: (air=1): NA
EVAPORATION RATE: NA
METAL CORROSION: ALUMINUM: 0.617 in/yr
STEEL: 0.26 in/yr
STABILITY: Stable
STORAGE PRECAUTIONS: Store in a cool, dry place.

IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT.: Not applicable
METHOD: NA
FLAMMABILITY LIMITS: LOWER: NA
UPPER: NA
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None
SHOCK SENSITIVITY: None
AUTOIGNITION PT.: NA
EXTinguISHING MEDIA: water, carbon dioxide, or dry chemical

FIRE/EXPLOSION HAZARDS: May emit toxic fumes in fire
HAZARDOUS DECOMP: PRODUCTS: May emit toxic fumes of cadmium oxide, nitrogen oxides, sulfur oxides in fire
OXIDIZER: No
NFPA CODES: Health: 3
Flammability: 1
Reactivity: 0
CONDITIONS TO AVOID: Unnecessary exposure to moisture. Avoid creation of dust. Contact with hydrazine acid, aluminum, sodium, selenium, tellurium, ammonium nitrate or oxidizers.

V. HEALTH HAZARD DATA

This product may be corrosive to the eyes, irritating to skin and respiratory tract.

ACUTE TOXICITY: Not determined

HAZARDS TO HUMAN HEALTH: Not determined

Routes of Exposure: Inhalation, skin absorption
TARGET ORGANS: Kidneys, lungs, central nervous system, reproductive system

CHRONIC TOXICITY: Danger of cumulative effects

Routes of Exposure: Inhalation
TARGET ORGANS: Lungs, kidneys

CANCER INFORMATION: An ingredient of this mixture is a recognized carcinogen.

Routes of Exposure: Inhalation

TARGET ORGANS: Lungs, reproductive system, kidneys

OVEREXPOSURE: Causes eye burns. May cause skin and respiratory irritation, shortness of breath, weakness, chest pain, stomach disturbances, central nervous system depression, lung tissue destruction, liver and kidney damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory conditions, kidney disease. Persons with impaired kidney function may be more susceptible to the effects of the product.

VI. PRECAUTIONARY MEASURES

Avoid contact with eyes, skin and clothing.
Do not breathe dust.
Wash thoroughly after handling.

PROTECTIVE EQUIPMENT: Fume hood/ respirator, lab grade goggles, disposable latex gloves, lab coat

VII. FIRST AID

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Call physician. Wash skin with soap and plenty of water.

INGESTION: Administer milk or beaten egg whites at frequent intervals. Induce vomiting. Never give anything by mouth to an unconscious person.
Call physician.

INHALATION: Remove to fresh air. Give artificial respiration if necessary. Call physician.

VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Scoop up material. Decontaminate site. Dispose of the material in an E.P.A. approved hazardous waste site.

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

IX. TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA
ID: NA
GROUP: NA

I.C.A.O. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA
ID: NA
GROUP: NA

I.M.O. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA
ID: NA
GROUP: NA

X. REFERENCES

3) In-house Information.
4) Technical Judgment.

SPECIAL NOTE: In laboratory tests, when magnesium sulfate was given to pregnant rats, a sharp reduction of both the number and the weight of the offspring was observed. CDTA, Trisodium salt has a LVE from the TSCA 8(b) Inventory for use as a chelating reagent in chemical reactions.

SARA: This product contains a chemical or chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

PER CALIFORNIA PROPOSITION 65: "WARNING - This product contains a chemical known to the State of California to cause cancer."

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