



UNIVAR

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For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

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The Version Date for this MSDS is : 01/09/2002

PRODUCT IDENTIFICATION

PRODUCT NAME: SODIUM HYDROSULFITE VIRTEX D POWDER
MSDS#: P1161V
DATE ISSUED: 08/27/01
SUPERSEDES: 07/05/00
ISSUED BY: 008870

MATERIAL SAFETY DATA SHEET

CLARIANT CORPORATION
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CHARLOTTE, NC 28205

For Chemical Emergency
Call CHEMTREC - Day or Night
1-800-424-9300

For MSDS Info: (704)331-7710
CLARIANT Corp.: (704)331-7000

----- H M I S -----
HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 2
PERSONAL PROTECTION: J

SECTION 01 - PRODUCT IDENTIFICATION

TRADE NAME: VIRTEX D POWDER
PRODUCT CODE: 955150
CAS NUMBER: 7775-14-6
SYNONYMS: SODIUM DITHIONITE; HYDRO

CHEMICAL FAMILY: INORGANIC SALT
FORMULA: H2O4S2.2NA
PRIMARY PRODUCT USE: REDUCING AGENT

SECTION 02 - COMPOSITION INFORMATION ON HAZARDOUS INGREDIENTS

COMPONENT	CAS NO.	WT. %	PEL/TLV
SODIUM HYDROSULFITE	7775-14-6	89-91	5 MG/M3 TWA INTERNAL
LD50 (ORAL)(RAT): 500 MG/KG			
LD50 (DERMAL)(RAT): 10,000 MG/KG			
ALKALINE STABILIZERS	ALKSTAB	>1.0	NOT ESTABLISHED

SECTION 03 - HAZARDS IDENTIFICATION

(REFER TO SECTION 11 FOR ADDITIONAL INFORMATION)

EXPECTED ROUTE OF ENTRY:

SKIN CONTACT: X
SKIN ABSORPTION:
EYE CONTACT: X
INHALATION: X
INGESTION: X

EFFECTS OF EXPOSURE:

SODIUM HYDROSULFITE: INHALATION MAY CAUSE RESPIRATORY IRRITATION AND BRONCHOSPASMS. SYMPTOMS MAY INCLUDE COUGHING AND BREATHING DIFFICULTY. MAY CAUSE SEVERE RESPIRATORY DISTRESS IN ASTHMATICS. ASTHMATICS OR PERSONS WITH OTHER RESPIRATORY DISORDERS SHOULD BE EXCLUDED FROM EXPOSURE. MAY CAUSE SLIGHT SKIN IRRITATION, NECROSIS OBSERVED IN ONE SKIN IRRITATION STUDY OF LABORATORY ANIMALS(RABBITS). PRACTICALLY NON-TOXIC BY SKIN ABSORPTION. LD50-DERMAL(RABBITS)>10,000 MG/KG. INGESTION MAY CAUSE MOUTH, THROAT, ESOPHAGUS IRRITATION OR BURNS. MAY CAUSE GASTROINTESTINAL DISTURBANCES. LD50-ORAL(RAT)>500 MG/KG-SLIGHTLY TOXIC. MAY CAUSE SENSITIZATION IN Individuals ALLERGIC TO SULFITES. MODERATE TO SEVERE EYE IRRITANT. SULFUR DIOXIDE DECOMPOSITION PRODUCT MAY CAUSE PULMONARY IRRITATION, BRONCHOSPASMS, RESPIRATORY FAILURE DUE TO PULMONARY EDEMA.

ALKALINE STABILIZERS: INHALATION OF DUSTS MAY IRRITATE NOSE, THROAT AND LUNGS. ALTHOUGH LOW IN TOXICITY, INGESTION CAN BE HARMFUL. MAY IRRITATE MOUTH, ESOPHAGUS, STOMACH, ETC. MAY CAUSE IRRITATION TO SKIN FROM PROLONGED CONTACT. MAY IRRITATE OR BURN EYES.

KNOWN EFFECTS ON OTHER ILLNESSES:

PERSONS WITH ASTHMA.

LISTED CARCINOGEN:

NONE: X
OSHA:
NTP:
IARC:
OTHER:

SECTION 04 - FIRST AID MEASURES

FIRST AID FOR EYES:

FLUSH IMMEDIATELY UNDER RUNNING WATER FOR FIFTEEN MINUTES. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

FIRST AID FOR SKIN:

WASH THOROUGHLY WITH SOAP AND WATER FOR 15 MINUTES. IF SKIN IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

FIRST AID FOR INHALATION:

REMOVE SUBJECT TO FRESH AIR. SEEK MEDICAL AID IF LUNG IRRITATION PERSISTS OR IF BREATHING BECOMES DIFFICULT.

FIRST AID FOR INGESTION:

IF INGESTED, SEEK MEDICAL ASSISTANCE.

NOTE TO PHYSICIAN:

TREAT IN ACCORDANCE WITH NATURE OF ACUTE EXPOSURE AND CONSISTENT WITH EMERGENCY AND FIRST AID PROCEDURES. THIS MATERIAL AND ITS DECOMPOSITION PRODUCTS ARE RESPIRATORY AND MUCOUS MEMBRANE IRRITANTS. PERSONS WITH A DEMONSTRATED ACUTE RESPONSE (WHEEZING) OR CHRONIC RESPONSE (ASTHMA) TO SUCH IRRITANTS MUST BE EXCLUDED FROM EXPOSURE.

SECTION 05 - FIRE FIGHTING MEASURES

FLASH POINT (F): DECOMPOSES

FLAMMABLE LIMITS:

LEL: UNKNOWN

UEL: UNKNOWN

AUTOIGNITION TEMPERATURE (F): UNKNOWN

HAZARDOUS COMBUSTION PRODUCTS:

A MAJOR DECOMPOSITION PRODUCT IS SULFUR DIOXIDE; HOWEVER, DURING CATASTROPHIC DECOMPOSITION OTHER SULFUR CONTAINING DECOMPOSITION PRODUCTS SUCH AS HYDROGEN SULFIDE MAY BE PRESENT.

EXTINGUISHING MEDIA:

WATER: X

ALCOHOL FOAM:

CO2:

DRY CHEMICAL:

WATER/FOG SPRAY:

NO EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

USE SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. IF DECOMPOSITION IS SUSPECTED IN SEALED CONTAINER (HOT TO TOUCH OR PRESSURE DEFORMED), VENT CONTAINER BY SAFEST MEANS POSSIBLE. MOVE VENTED CONTAINER TO A SAFE OPEN AREA. EMPTY, FLOOD MATERIAL WITH WATER, CONTAIN ALL RUNOFF. SAND OR DRY CHEMICAL WILL NOT STOP DECOMPOSITION REACTIONS!
SUITABLE EXTINGUISHING MEDIA: USE WATER IN VERY LARGE QUANTITIES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTACT WITH SMALL AMOUNTS OF WATER OR HUMID ATMOSPHERE WILL CAUSE CHEMICAL REACTION. HEAT GENERATED IS SUFFICIENT TO IGNITE COMBUSTIBLE MATERIALS. IF FIRE CODE REQUIRES SPRINKLERED STORAGE, PROTECT BY COVERING WITH PLASTIC. PROMPTLY REMOVE AND INSPECT CONTAINERS WHICH ARE ACCIDENTALLY WETTED. UNDER EXTREME FIRE CONDITIONS IN CONFINED SPACES,

LARGE QUANTITIES OF DECOMPOSING SODIUM HYDROSULFITE CAN PRODUCE DECOMPOSITION PRODUCTS, ONE OF WHICH IS ELEMENTAL SULFUR. IT IS KNOWN THAT SULFUR AND ITS DUSTS AT HIGH CONCENTRATIONS MAY CREATE POTENTIAL FOR EXPLOSION. IN THE EVENT THAT SULFUR DUST COULD PRESENT AN EXPLOSION POTENTIAL, THE RECOMMENDED RESPONSE IS TO GENTLY APPLY FOG STREAM OF WATER. MAY RE-IGNITE AFTER FIRE IS EXTINGUISHED. CLOSED CONTAINERS MAY RUPTURE VIOLENTLY WHEN HEATED.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

CONTAIN TO MINIMIZE CONTAMINATED AREA. RECOVER AS A DRY MATERIAL. DISCARDED MATERIAL IS CLASSIFIED AS A HAZARDOUS WASTE BECAUSE OF THE REACTIVITY WITH WATER OR MOISTURE. KEEP MATERIAL OUT OF STORM DRAINS OR DITCHES, SURFACE WATERS, AND DRAINS TO MUNICIPAL WASTE WATER TREATMENT SYSTEMS.

SECTION 07 - HANDLING AND STORAGE

HANDLING AND STORAGE INFORMATION:

CLOSED CONTAINERS MAY RUPTURE VIOLENTLY WHEN HEATED. KEEP STORED MATERIAL DRY AND AT TEMPERATURES BELOW 122F (50C). DO NOT STORE CONTAINERS OPEN TO THE AIR. KEEP THE CONTAINER TIGHTLY COVERED WHEN MATERIAL IS NOT IN USE. SEPARATE CONTAINERS FROM OXIDIZERS, ACIDS AND FLAMMABLE MATERIALS. AVOID SOURCES OF HEAT OR FLAME. IF THE CONTAINER WALL FEELS HOT OR IF THE CONTAINER BEGINS TO SMOKE, REMOVE THE CONTAINER TO AN OPEN AREA, REMOVE MATERIAL, FLOOD WITH WATER, CONTAIN RUN-OFF. REMOVE DAMAGED OR PUNCTURED CONTAINERS FROM STORAGE, SECURE ANY LEAKS AND USE PRODUCT IMMEDIATELY. OBSERVE CONTAINER FOR SIGNS OF PRODUCT DECOMPOSITION (CONTAINER WARM TO TOUCH). IF STORED IN A FIRE SPRINKLER PROTECTED AREA, COVER CONTAINER WITH PLASTIC SHEETING TO PREVENT WETTING IF SPRINKLERS ACTIVATE.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

USE NIOSH/MSHA APPROVED RESPIRATOR WITH ACID GAS CARTRIDGE AND DUST PRE-FILTER FOR CONCENTRATIONS UP TO 10 TIMES THE RECOMMENDED EXPOSURE LIMIT. FOR HIGH CONCENTRATIONS, AS WELL AS FIRE FIGHTING AND OTHER EMERGENCIES, USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.

PROTECTIVE GLOVES:

BUTYL RUBBER, PVC OR NEOPRENE

EYE PROTECTION:

SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES

OTHER PROTECTIVE EQUIPMENT:

CLOTHING SUITABLE TO PREVENT SKIN CONTACT.

VENTILATION:

LOCAL VENTILATION RECOMMENDED - MECHANICAL VENTILATION MAY BE USED.

EXPOSURE LIMITS: NONE ON PRODUCT

IDLH (IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATION):
NOT DETERMINED

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: WHITE FREE FLOWING POWDER, SLIGHT HYDROSULFITE ODOR
ODOR THRESHOLD: NO DATA AVAILABLE
PH (5% IN WATER): 6.4 - 6.8
SOLUBILITY IN WATER: 18%
SPECIFIC GRAVITY: 0.8 - 1.02
BOILING POINT (F): NOT AVAILABLE
MELTING POINT (F): DECOMPOSES
FREEZING POINT (F): NOT AVAILABLE
VAPOR PRESSURE(MM HG): NOT AVAILABLE
VAPOR DENSITY (AIR=1): NOT AVAILABLE
EVAPORATION RATE: NOT AVAILABLE
LOSS ON DRYING(%): NOT AVAILABLE
VOC(EPA METHOD 24/24A): 0% CALCULATED
OCTANOL/WATER PARTITION COEFFICIENT:

OTHER PHYSICAL AND CHEMICAL PROPERTIES:

BULK DENSITY - 64 LB/FT3
DECOMPOSITION TEMPERATURE - APPROX 158 F (70C)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE
CONDITIONS TO AVOID: HEATING ABOVE 122 F (50 C), MOISTURE

HAZARDOUS POLYMERIZATION WILL NOT OCCUR
CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY: AVOID CONTACT WITH OXIDIZING AGENTS, PEROXIDES, POTASSIUM
CHLORATE, POTASSIUM PERMANGANATE. AVOID TEMPERATURES OVER
122 F (50 C). AVOID CONTACT WITH MOISTURE.

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50 (ORAL-RAT): >500 MG/KG BODY WEIGHT
DERMAL IRRITATION-RABBIT: NOT TESTED
EYE IRRITATION-RABBIT: NOT TESTED

SECTION 12 - ECOLOGICAL INFORMATION

BIOLOGICAL ELIMINATION:

NONE % ANALYSIS: METHOD: NONE

AQUATIC TOXICITY:

SPECIES: NONE	LC100: NONE	MG/L	TIME: H
SPECIES: NONE	LC 50: NONE	MG/L	TIME: H
SPECIES: NONE	LC 0: NONE	MG/L	TIME: H

BACTERIAL INHIBITION:

NO INHIBITION (MG/L): NOT DETERMINED
50% INHIBITION (MG/L): NOT DETERMINED

BIOCHEMICAL OXYGEN DEMAND (BOD5-MG/L): NOT DETERMINED
CHEMICAL OXYGEN DEMAND (COD-MG/L): NOT DETERMINED

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION:

THIS PRODUCT MAY YIELD WASTE SUBJECT TO THE RCRA LAND DISPOSAL RESTRICTIONS FOUND AT 40 CFR 268. THESE WASTES MUST BE TREATED ACCORDING TO THE TREATMENT STANDARDS AT 40 CFR 268 SUBPART D BEFORE LAND DISPOSAL.

RCRA HAZARDOUS WASTE: YES - IF IT BECOMES A WASTE AS SOLD.
RCRA #: D003, D001

FOLLOW ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

DOT REGULATED: YES
RQ MET AT: NONE
UN/NA NUMBER: UN 1384
PACKING GROUP: II

HAZARD CLASSIFICATION: 4.2
SPONTANEOUSLY COMBUSTIBLE MATERIAL

SUBSIDIARY RISK 1: NONE
SUBSIDIARY RISK 2: NONE
POISON INHALATION: NO HAZARD ZONE: NONE
MARINE POLLUTANT : NO
DOT LABEL(S) REQUIRED: SPONTANEOUSLY COMBUSTIBLE
NORTH AMERICAN EMERGENCY RESPONSE GUIDE NO.: 135

SHIPPING NAME: SODIUM HYDROSULFITE
DOT REGULATED BULK ONLY: NO
CANADIAN TRANSPORT REGULATION: NOT DETERMINED

INTERNATIONAL AIR TRANSPORTATION REGULATIONS:
UN/NA NUMBER: UN1384
PACKING GROUP: II
HAZARD CLASS/DIVISION: 4.2 SPONTANEOUSLY COMBUSTIBLE MATERIAL
SUBSIDIARY RISK 1: NONE
SUBSIDIARY RISK 2: NONE
PASSENGER AIRCRAFT FORBIDDEN: NO

SHIPPING NAME: SODIUM HYDROSULFITE
INTERNATIONAL MARITIME DANGEROUS GOODS REGULATION:
UN/NA NUMBER: UN1384
PACKING GROUP: II
HAZARD CLASS/DIVISION: 4.2 SPONTANEOUSLY COMBUSTIBLE MATERIAL
SUBSIDIARY RISK 1: NONE
SUBSIDIARY RISK 2: NONE
MARINE POLLUTANT: NO
PAGE/AMENDMENT#: 4262/25-89

SHIPPING NAME: SODIUM HYDROSULFITE

SECTION 15 - REGULATORY INFORMATION

TSCA: WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT.

SARA (SECTION 311/312):

REACTIVE HAZARD: Y
PRESSURE HAZARD: N
FIRE HAZARD: N
IMMEDIATE/ACUTE: Y
DELAYED/CHRONIC: N

SARA(SECTION 302):

CONTAINS AN EXTREMELY HAZARDOUS SUBSTANCE: N

SARA(SECTION 313 - TOXIC CHEMICAL):

THIS PRODUCT DOES NOT CONTAIN ANY TOXIC CHEMICAL LISTED UNDER SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986.

CLEAN WATER ACT - PRIORITY POLLUTANTS:

CONTAINS NO KNOWN PRIORITY POLLUTANTS AT CONCENTRATIONS GREATER THAN 0.1%.

CLEAN AIR ACT - VOLATILE ORGANIC COMPOUNDS:

VOC(EPA METHOD 24/24A): NOT AVAILABLE

LOSS ON DRYING (%): NOT AVAILABLE

CERCLA (FOR COMPONENTS LISTED IN SECTION 2): NO

LOWEST RQ: NONE

RCRA HAZARDOUS WASTE: YES - IF IT BECOMES A WASTE AS SOLD.

RCRA #: D003, D001

FDA: THIS PRODUCT IS NOT REGISTERED WITH THE FDA

USDA: THIS PRODUCT IS NOT REGISTERED WITH THE USDA

CEPA: LISTED AS PRIORITY SUBSTANCE: NO

LISTED AS TOXIC SUBSTANCE: NO

EXPORT IS NOTIFIABLE: NO

LISTED ON DSL: YES

LISTED ON NDSL: NO

CEPA STATUS: PRODUCT NOT YET EVALUATED

WHMIS: NOT EVALUATED

SECTION 16 - OTHER INFORMATION

OTHER PRECAUTIONS:

NONE KNOWN

STATE REGULATORY INFORMATION:

PENNSYLVANIA: AS NOTED PER SECTION 2.

MASSACHUSETTS: ANY COMPONENT OF THIS PRODUCT WHICH IS A HAZARDOUS CHEMICAL AS LISTED IN THE MASSACHUSETTS SUBSTANCE LIST IS SHOWN

ABOVE IN SECTION 2 OF THIS MSDS. NON-HAZARDOUS COMPONENTS
ARE BEING WITHHELD AS TRADE SECRET INFORMATION.

LABEL INFORMATION:

LABEL HAZARDS:

WARNING!

SELF-HEATING SUBSTANCE. MAY SPONTANEOUSLY DECOMPOSE IN THE PRESENCE OF
MOISTURE OR SMALL AMOUNTS OF WATER.

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

CAUTION!

MAY IRRITATE UPPER RESPIRATORY TRACT.

WARNING!

UNDER DECOMPOSITION CONDITIONS, TOXIC GASES ARE PRODUCED.

LABEL PRECAUTIONS:

KEEP DRY! AVOID CONTACT WITH MOISTURE OR SMALL AMOUNTS OF WATER. STORE IN
A DRY AREA AT LESS THAN 122 F (50C). FLOOD WITH WATER IF DECOMPOSITION OCCURS.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER
HANDLING. WEAR PROPER PROTECTIVE EQUIPMENT.

AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION. KEEP CONTAINERS
CLOSED WHEN NOT IN USE.

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE,
HANDLE WITH DUE CARE AND AVOID UNNECESSARY CONTACT WITH THIS PRODUCT.

THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW"
REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH AS TYPICAL
VALUES AND NOT AS A PRODUCT SPECIFICATION.

For Additional Information:

Contact: MSDS Coordinator - Univar USA

During business hours, Pacific Time - (425) 889-3400

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END OF MSDS