



UNIVAR

**Univar USA Inc.
6100 Carillon Point
Kirkland, WA 98033
(425) 889-3400**

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

The Version Date for this MSDS is : 04/24/2001

PRODUCT NAME: SODIUM SULFATE ANHYDROUS

MSDS NUMBER: MZS5018

EFFECTIVE DATE: 6/8/2000

SUPERSEDES: NEW

ISSUED BY: 008614

1. PRODUCT IDENTIFICATION

SYNONYMS: DISODIUM SULFATE; SODIUM SULFATE ANHYDROUS; SULFURIC ACID, DISODIUM SALT; SODIUM SULFATE
CAS NO: 7757-82-6
MOLECULAR WEIGHT: 142.04
CHEMICAL FORMULA: NA2 SO4

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	PERCENT	HAZARDOUS
SODIUM SULFATE	7757-82-6	90 - 100%	YES

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, AVOID ALL UNNECESSARY EXPOSURE TO THE CHEMICAL SUBSTANCE AND ENSURE PROMPT REMOVAL FROM SKIN, EYES AND CLOTHING.

POTENTIAL HEALTH EFFECTS

INHALATION:
NOT EXPECTED TO BE A HEALTH HAZARD.

INGESTION:
MILDLY TOXIC BY INGESTION. SLOWLY ABSORBED FROM THE ALIMENTARY TRACT. BECAUSE OF OSMOTIC ACTIVITY, IT WILL DRAW WATER INTO THE LUMEN OF THE BOWEL

AND MAY CAUSE PURGING, FLUID LOSS, BLOOD IN STOOLS, FALL OF BLOOD PRESSURE,
AND HIGH SODIUM LEVELS IN THE BLOOD.

SKIN CONTACT:
NO ADVERSE EFFECTS EXPECTED.

EYE CONTACT:
NO ADVERSE EFFECTS EXPECTED BUT DUST MAY CAUSE MECHANICAL IRRITATION.

CHRONIC EXPOSURE:
NO INFORMATION FOUND.

AGGRAVATION OF PRE-EXISTING CONDITIONS:
NO INFORMATION FOUND.

4. FIRST AID MEASURES

INHALATION:
NOT EXPECTED TO REQUIRE FIRST AID MEASURES.

INGESTION:
GIVE SEVERAL GLASSES OF WATER TO DRINK TO DILUTE. IF LARGE AMOUNTS WERE SWALLOWED, GET MEDICAL ADVICE.

SKIN CONTACT:
WASH EXPOSED AREA WITH SOAP AND WATER. GET MEDICAL ADVICE IF IRRITATION DEVELOPS.

EYE CONTACT:
WASH THOROUGHLY WITH RUNNING WATER. GET MEDICAL ADVICE IF IRRITATION DEVELOPS.

5. FIRE FIGHTING MEASURES

FIRE:
NOT CONSIDERED TO BE A FIRE HAZARD.

EXPLOSION:
NOT CONSIDERED TO BE AN EXPLOSION HAZARD, BUT VIOLENT EXPLOSIONS OCCUR WHEN POTASSIUM SULFATE AND SODIUM SULFATE ARE MELTED WITH ALUMINUM.

FIRE EXTINGUISHING MEDIA:
USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

SPECIAL INFORMATION:
USE PROTECTIVE CLOTHING AND BREATHING EQUIPMENT APPROPRIATE FOR THE SURROUNDING FIRE.

6. ACCIDENTAL RELEASE MEASURES

VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. SPILLS: SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL.

7. HANDLING AND STORAGE

KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA.

PROTECT AGAINST PHYSICAL DAMAGE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:
NONE ESTABLISHED.

VENTILATION SYSTEM:
IN GENERAL, DILUTION VENTILATION IS A SATISFACTORY HEALTH HAZARD CONTROL FOR THIS SUBSTANCE. HOWEVER, IF CONDITIONS OF USE CREATE DISCOMFORT TO THE WORKER, A LOCAL EXHAUST SYSTEM SHOULD BE CONSIDERED.

PERSONAL RESPIRATORS (NIOSH APPROVED):
FOR CONDITIONS OF USE WHERE EXPOSURE TO THE DUST OR MIST IS APPARENT, A HALF-FACE DUST/MIST RESPIRATOR MAY BE WORN. 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:
WEAR PROTECTIVE GLOVES AND CLEAN BODY-COVERING CLOTHING.

EYE PROTECTION:
USE CHEMICAL SAFETY GOGGLES. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: FINE WHITE CRYSTALLINE GRANULES. BOILING POINT: NO INFORMATION FOUND.

ODOR: ODORLESS. MELTING POINT: 844C (1551F)

SOLUBILITY: SOLUBLE IN APPROX. 3.6 PARTS WATER, 1 IN 2 PARTS MAXIMUM @ 33C (91F). VAPOR DENSITY (AIR=1): NO INFORMATION FOUND.

DENSITY: 2.68 VAPOR PRESSURE (MM HG): NO INFORMATION FOUND.

PH: NO INFORMATION FOUND. EVAPORATION RATE (BUAC=1): NO INFORMATION FOUND.

% VOLATILES BY VOLUME @ 21C (70F):
0

10. STABILITY AND REACTIVITY

STABILITY:

STABLE IN TIGHTLY CLOSED CONTAINERS UNDER NORMAL CONDITIONS OF STORAGE.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF SULFUR AND SODIUM MAY FORM WHEN HEATED TO DECOMPOSITION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

INCOMPATIBILITIES:

IN COMBINATION WITH SODIUM SULFATE, ALUMINUM AND MAGNESIUM WILL EXPLODE AT 800C (1472F); STRONG MINERAL ACIDS AND BASES.

CONDITIONS TO AVOID:

AIR, MOISTURE, AND INCOMPATIBLES.

11. TOXICOLOGICAL INFORMATION

NO LD50/LC50 INFORMATION FOUND RELATING TO NORMAL ROUTES OF OCCUPATIONAL EXPOSURE. INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR.

-----\CANCER LISTS\-----

---NTP CARCINOGEN---

INGREDIENT	KNOWN	ANTICIPATED	IARC CATEGORY
SODIUM SULFATE (7757-82-6)	NO	NO	NONE

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED TO LEACH INTO GROUNDWATER. THIS MATERIAL IS NOT EXPECTED TO SIGNIFICANTLY BIOACCUMULATE.

ENVIRONMENTAL TOXICITY:

THIS MATERIAL IS NOT EXPECTED TO BE TOXIC TO AQUATIC LIFE. THE LC50/96-HOUR VALUES FOR FISH ARE OVER 100 MG/L. THE EC50/48-HOUR VALUES FOR DAPHNIA ARE OVER 100 MG/L.

13. DISPOSAL CONSIDERATIONS

WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL 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.

14. TRANSPORT INFORMATION

NOT REGULATED.

15. REGULATORY INFORMATION

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-----\CHEMICAL INVENTORY STATUS - PART
1\-----
INGREDIENT                TSCA                EC                JAPAN            AUSTRALIA
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SODIUM SULFATE (7757-82-6)    YES                YES                YES                YES

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-----\CHEMICAL INVENTORY STATUS - PART 2\-----
--CANADA--
INGREDIENT                KOREA                DSL                NDSL                PHIL.
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SODIUM SULFATE (7757-82-6)    YES                YES                NO                YES

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-----\FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1\-----
-SARA 302-    -SARA 313-----
INGREDIENT                RQ                TPQ                LIST                CHEMICAL CATG
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SODIUM SULFATE (7757-82-6)    NO                NO                NO                NO

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-----\FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2\-----
-RCRA-    -TSCA-
INGREDIENT                CERCLA                261.33                8 (D)
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SODIUM SULFATE (7757-82-6)    NO                NO                NO

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CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA: NO
 SARA 311/312: ACUTE: NO CHRONIC: NO FIRE: NO PRESSURE: NO
 REACTIVITY: NO (PURE / SOLID)

AUSTRALIAN HAZCHEM CODE: NO INFORMATION FOUND.
 POISON SCHEDULE: NO INFORMATION FOUND.

WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE HAZARD CRITERIA OF
 THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS
 ALL OF THE INFORMATION REQUIRED BY THE CPR.

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16. OTHER INFORMATION

NFPA RATINGS:
 HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

For Additional Information:
Contact: MSDS Coordinator - Univar USA
During business hours, Pacific Time - (425) 889-3400

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END OF MSDS