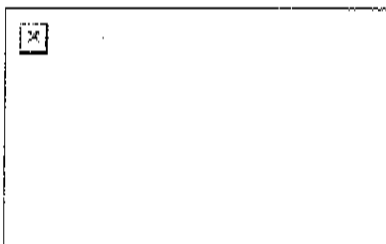


## UNIVAR USA - MSDS



**Univar USA Inc.**  
**17425 NE Union Hill Road**  
**Redmond, WA 98052**  
**(425) 889-3400**

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

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The Version Date and Number for this MSDS is : 12/12/2007 - #007

PRODUCT NAME: SODIUM FLUORIDE  
 MSDS NUMBER: MZS3722  
 DATE ISSUED: 12/10/2007  
 SUPERSEDES: 06/05/2007  
 ISSUED BY: 008614

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SODIUM FLUORIDE

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1. PRODUCT IDENTIFICATION

SYNONYMS: FLORIDINE; SODIUM MONOFLUORIDE; DISODIUM DIFLUORIDE;  
 NATRIUM FLUORIDE; FLOROCID  
 CAS NO: 7681-49-4  
 MOLECULAR WEIGHT: 41.99  
 CHEMICAL FORMULA: NAF

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2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	PERCENT	HAZARDOUS
SODIUM FLUORIDE	7681-49-4	100%	YES

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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

## UNIVAR USA - MSDS

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DANGER! MAY BE FATAL IF SWALLOWED OR INHALED. AFFECTS RESPIRATORY SYSTEM, HEART, SKELETON, CIRCULATORY SYSTEM, CENTRAL NERVOUS SYSTEM AND KIDNEYS. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. IRRITATION EFFECTS MAY BE DELAYED.

## POTENTIAL HEALTH EFFECTS

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IF INHALED OR SWALLOWED, THIS COMPOUND CAN CAUSE FLUORIDE POISONING. EARLY SYMPTOMS INCLUDE NAUSEA, VOMITING, DIARRHEA, AND WEAKNESS. LATER EFFECTS INCLUDE CENTRAL NERVOUS SYSTEM EFFECTS, CARDIOVASCULAR EFFECTS AND DEATH.

## INHALATION:

CAUSES SEVERE IRRITATION TO THE RESPIRATORY TRACT, SYMPTOMS MAY INCLUDE COUGHING, SORE THROAT, AND LABORED BREATHING. MAY BE ABSORBED THROUGH INHALATION OF DUST; SYMPTOMS MAY PARALLEL THOSE FROM INGESTION EXPOSURE. IRRITATION EFFECTS MAY NOT APPEAR IMMEDIATELY.

## INGESTION:

TOXIC! MAY CAUSE SALIVATION, NAUSEA, VOMITING, DIARRHEA, AND ABDOMINAL PAIN. SYMPTOMS OF WEAKNESS, TREMORS, SHALLOW RESPIRATION, CARDIOPEDAL SPASM, CONVULSIONS, AND COMA MAY FOLLOW. MAY CAUSE BRAIN AND KIDNEY DAMAGE. AFFECTS HEART AND CIRCULATORY SYSTEM. DEATH MAY OCCUR FROM RESPIRATORY PARALYSIS. ESTIMATED LETHAL DOSE = 5-10 GRAMS.

## SKIN CONTACT:

CAUSES IRRITATION, WITH REDNESS AND PAIN. SOLUTIONS ARE CORROSIVE. EFFECTS MAY NOT APPEAR IMMEDIATELY.

## EYE CONTACT:

EYE IRRITANT! MAY CAUSE IRRITATION AND SERIOUS EYE DAMAGE. EFFECTS MAY NOT IMMEDIATELY APPEAR.

## CHRONIC EXPOSURE:

CHRONIC EXPOSURE MAY CAUSE MOTTLING OF TEETH AND BONE DAMAGE (OSTEOSCLEROSIS) AND FLUOROSIS. SYMPTOMS OF FLUOROSIS INCLUDE BRITTLE BONES, WEIGHT LOSS, ANEMIA, CALCIFIED LIGAMENTS, GENERAL ILL HEALTH AND JOINT STIFFNESS.

## AGGRAVATION OF PRE-EXISTING CONDITIONS:

POPULATIONS THAT APPEAR TO BE AT INCREASED RISK FROM THE EFFECTS OF FLUORIDE ARE INDIVIDUALS THAT SUFFER FROM DIABETES INSIPIDUS OR SOME FORMS OF RENAL IMPAIRMENT.

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#### 4. FIRST AID MEASURES

FIRST AID PROCEDURES SHOULD BE PRE-PLANNED FOR FLUORIDE COMPOUND EMERGENCIES.

## INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN IMMEDIATELY.

## INGESTION:

ADMINISTER MILK, CHEWABLE CALCIUM CARBONATE TABLETS OR MILK OF MAGNESIA. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN IMMEDIATELY.