



MATERIAL SAFETY DATA SHEET

Product Number: 037158

Product Description: FLUORIDE STANDARD

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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION (Section II)

Table with 3 columns: HAZARDOUS COMPONENTS, PERCENT, CAS NO.
Deionized Water: 99.78%, 7732-18-5
Sodium Fluoride (1000 mg/L F-): 0.22%, 7681-49-4

PHYSICAL/CHEMICAL CHARACTERISTICS (Section III)

BOILING POINT: approximately 100°C
SPECIFIC GRAVITY (H2O = 1): approximately 1
MELTING POINT: approximately 0°C
SOLUBILITY IN WATER: The solution is approximately 99.8% water
APPEARANCE AND ODOR: Clear odorless solution

FIRE AND EXPLOSION HAZARD DATA (Section IV)

FLASH POINT (METHOD USED): N/A
(Note that the solution is approximately 99.8% water)
FLAMMABLE LIMITS:
LEL: Undetermined
UEL: Undetermined
EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Because of the high water content, this solution poses no fire or explosion hazard.

REACTIVITY DATA (Section V)

STABILITY: UNSTABLE, STABLE: X
CONDITIONS TO AVOID:
INCOMPATIBILITY (MATERIALS TO AVOID): Materials that react violently with water.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: The fluoride salt is a stable inorganic salt. Common reaction products are not hazardous.
HAZARDOUS POLYMERIZATION: MAY OCCUR, WILL NOT OCCUR: X
CONDITIONS TO AVOID:

HEALTH HAZARD DATA (Section VI)

HAZARD CLASS:
COMPONENT Sodium Fluoride (pure)
Health 2, NFPA RATINGS (SCALE 0-4) Fire 0, Reactivity 0
ROUTES OF ENTRY: INHALATION?: X, SKIN?: X, INGESTION?: X

**HEALTH HAZARDS (ACUTE AND CHRONIC):**

The fluoride salt may cause eye irritation.
The fluoride salt can be irritating to mucous membranes and upper respiratory tract.

Toxic Hazards**TOXICITY DATA (ref #1)****SODIUM FLUORIDE**

EYE-RBT	20 MG/24H SEV
ORL-MUS TDLO:	28 MG/KG/(11-21D PREG):TER
IPR-MUS TDLO:	24 MG/KG/(14-21D PREG):TER
ORL-HMN TDLO:	4 MG/KG TFX:CNS
ORL-HMN LDLO:	75 MG/KG
ORL-RAT LD50:	180 MG/KG
IPR-RAT LD50:	22 MG/KG
SCU-RAT LDLO:	125 MG/KG
ORL-MUS LDLO:	97 MG/KG
SKN-MUS LDLO:	300 MG/KG
IPR-MUS LD50:	49 MG/KG
SCU-MUS LDLO:	40 MG/KG
ORL-DOG LDLO:	75 MG/KG
IPR-DOG LDLO:	50 MG/KG
SCU-DOG LDLO:	155 MG/KG
IVN-DOG LDLO:	80 MG/KG
IMS-DOG LDLO:	40 MG/KG
SCU-CAT LDLO:	14 MG/KG
DNR-BCS	86 MG/L
CYT-MUS: OTH	200 MG/L
CYT-DOM: OTH	25 MG/L
CYT-CTL: OTH	10 MG/L
ORL-RBT LDLO:	100 MG/KG
IPR-RBT LDLO:	250 MG/KG
SCU-RBT LDLO:	100 MG/KG
SCU-GPG LDLO:	100 MG/KG
SCU-FRG LDLO:	448 MG/KG

Reported in EPA TSCA Inventory, 1980

Reference #1 DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, By N. Irving Sax, 6th Edition, Van Nostrand Reinhold Company, Inc.

CARCINOGENICITY:

NTP?: Unknown

IARC MONOGRAPHS?: Unknown

OSHA REGULATED?: Unknown

SYMPTOMS AND SIGNS OF EXPOSURE:

Water in nonhazardous.

Sodium fluoride is an irritant

Because of the very low concentration of the fluoride salt in water the degree of irritation caused by the standard will be very low.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Any rash or soreness of skin or eyes may be made worst by exposure to this solution.

EMERGENCY AND FIRST AID PROCEDURES:

In case of contact, wash skin with copious amounts of water.

Flush eyes with copious amounts of water for at least 15 minutes.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.

Submit to medical examination.

PRECAUTIONS FOR SAFE HANDLING AND USE (Section VII)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear appropriate protective clothing and eye protection.

Mop up and store in a suitable waste container.

Wash contaminated area with soap and water.

WASTE DISPOSAL METHOD:

Dispose of according to local, state and federal laws.

Because of the low concentration of the fluoride salt in the standard, no special precautions are necessary.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Work in areas with adequate ventilation.

CONTROL MEASURES (Section VII)

RESPIRATORY PROTECTION (SPECIFY TYPE)

No special precautions are necessary.

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL):

SPECIAL:

OTHER:

PROTECTIVE GLOVES: Disposable laboratory gloves are adequate.

EYE PROTECTION: Glasses or goggles should be worn as a general laboratory requirement.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Labcoats

WORK/HYGIENIC PRACTICES: Wipe up any spills and wash hands after working in the laboratory.