



OCI Company Ltd.

MSDS

Sodium Fluoride

Section 1 - Chemical Product and Company Identification

Substance : Sodium Fluoride

Recommended use : Not available

Restriction of use : Not available

Company Identification

Company : OCI Company Ltd.

Address : 595 230, Dokbae-ro, Nam-gu, Incheon, KOREA

Tel No. : 82 - 32 - 860 - 6114

Section 2 - Hazards Identification

- 1) Hazard Classification
- Acute hazard (Oral) : 3
 - Acute hazard (Skin) : 2
 - Skin corrosion / irritation : 1
 - Serious eye damage / Eye irritation : 1
 - Germ cells mutagenicity : 2
 - Reproductive toxicity : 2
 - Specific target organ toxicity following single exposure : 1
 - Specific target organ toxicity following repeated exposure : 1
 - Chronic harmful to the aquatic environment : 3

2) Warning signal

Symbol



Signal word

Hazard statement

Danger

- H301 Toxic if swallowed
- H310 Fatal in contact with skin
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H341 Suspected of causing genetic defects
- H361 Suspected of damaging fertility or the unborn child
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

Prevention precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P262 Do not get in eyes, on skin, or on clothing.
- P260 Do not subject to grinding/shock/friction.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P310 Immediately call a POISON CENTER or doctor/physician.
- P314 May be harmful in contact with skin
- P321 Specific treatment.
- P322 Specific measures.
- P330 Rinse mouth.
- P361 Remove/Take off immediately all contaminated clothing.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up
- P501 Dispose of contents/container to the related laws.

3) NFPA

Health Rating	1
Flammability Rating	0
Reactivity Rating	0

Section 3 - Composition, Information on Ingredients

COMPONENT : Sodium Fluoride
CAS No. : 7681-49-4
PERCENTAGE : 100%

Section 4 - First Aid Measures

Inhalation:

Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration.

Ingestion:

Rinse mouth. Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Skin Contact:

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

Section 5 - Fire Fighting Measures

Flammable properties

This product is not flammable.

Extinguishing media

Suitable extinguishing media : Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media : None known.

Protection of firefighters

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Section 6 - Accidental Release Measures

Personal precautions

Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for containment and cleaning up

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures:

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Section 7 - Handling and Storage

Handling :

Use personal protective equipment as required. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment. Avoid contact with eyes. Avoid contact with skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.

Storage :

Do not store in metal containers. Keep in a cool, well-ventilated place. Store in a dry place. Keep container tightly closed. Store locked up.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

Personal Protective Equipment

Eye/face : Wear safety glasses with side shields (or goggles) and a face shield.

Skin: Wear suitable protective clothing and chemical resistant gloves

Respirators: In case of inadequate ventilation use suitable respirator.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: White

Odor: Odorless

pH: 7.4

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 1700°C

Freezing/Melting Point: 993°C

Decomposition Temperature: Not available

Solubility: 4g / 100ml (20°C)

Specific Gravity/Density: 2.8

Molecular Formula: NaF

Molecular Weight: 42

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Excessive heat.

Incompatibilities with Other Materials: Combustible material

Hazardous Decomposition Products: May release harmful gas

Section 11 - Toxicological Information

Ecotoxicity : This product has no known eco-toxicological effects.

Environmental effects : Ecological injuries are not known or expected under normal use. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability : This material is readily biodegraded and is not likely to bioconcentrate.

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.

Environmental: No information available.

Physical: No information available.

Other: Avoid entering into waters or underground water. Do not empty into drains.

Section 13 - Disposal Considerations

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport Information

Shipping Name: Not available

Hazard Class: Not available

UN Number: Not available

Packing Group: Not available

Section 15 - Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Section 16 - Other Information

Sources : KOSHA, National Emergency Management Agency

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