

XI'AN FUNCTION MATERIAL GROUP CO.,

LTDSafety Data Sheet Sodium Yttrium Fluoride

1. Product and Company Identification

Trade Name: Sodium yttrium fluoride

Chemical Formula: NaYF₄

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO.,LTD

Street: No.69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H335: May cause respiratory irritation

H302+H332: Harmful if swallowed or if inhaled

H331: Toxic if inhaled H301: Toxic if swallowed

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P362: Take off contaminated clothing and wash before reuse

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition	
Chemical Family:	Ceramic
Additional Names:	None
Sodium fluoride (NaF):	
Percentage:	0-100 wt%
CAS #:	7681-49-4
EC #:	231-667-8
Yttrium fluoride (YF ₄):	
Percentage:	0-100 wt%
CAS #:	13709-49-4
EC #:	237-257-5
-	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce
	vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal.
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
	inert gas. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 1 mg/m³ as Y, long-term value Threshold Limit Value: 1 mg/m³ as Y, long-term value

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
N/A

Molecular weight: 187.89 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Oxidizing agents

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Hydrogen fluoride, Sodium oxide, Yttrium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage
Skin: Causes skin irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 31 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium yttrium fluoride)

15. Regulatory Information

Sec 302 Extremely Hazardous:

No
Sec 304 Reportable Quantities:

N/A
Sec 313 Toxic Chemicals:

No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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