

#### 1 Identification

Product identifier

Product name: Sodium hexafluoroantimonate (V)

Stock number: B20604, L17142

**CAS Number:** 16925-25-0 EC number: Index number:

www alfa com

Relevant identified uses of the substance or mixture and uses advised against.

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

#### 2 Hazard(s) identification

## Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)



Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

Hazards not otherwise classified No information known.

Label elements

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms



GHS07

# Signal word Warning

Hazard statements
H302+H332 Harmful if swallowed or if inhaled.

H302+H332 Harmful if swallowed of ill finaled.

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P364 Wash thoroughly after handling.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
P312 Call a POISON CENTER/doctor/.../if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification D1B - Toxic material causing immediate and serious toxic effects



# Classification system

HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable

# 3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description: 16925-25-0 Sodium hexafluoroantimonate (V)

Identification number(s): EC number: 240-989-8 Index number: 051-003-00-9

## 4 First-aid measures

# Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.

eek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

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# Product name: Sodium hexafluoroantimonate (V)

Rub in calcium gluconate solution or calcium gluconate gel immediately.

Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:
Hydrogen fluoride (HF)

Toxic metal compounds

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Ensure adequate ventilation

Prevention of secondary hazards: No special measures required. Reference to other sections

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7 Handling and storage

Handling Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires: The product is not flammable

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

Antimony and antimony compounds

ACGIH TLV 0.5 0.5 Austria MAK Belgium TWA Denmark TWA Ŏ.5 0.5 0.5 Finland TWA

France VME 0.5
France VME 0.5 (total formany MAK 0.5 (total formany TWA 0.5-STE Japan OEL 0.1; 2B Compart of the Very of the V 0.5 (total dust) 0.5-STEL 0.1; 2B Carcinogen

Norway TWA Poland TWA Russia TWA 0.5; 1.5-STEL 0.2: 0.5-STEL

Sweden NGV 0.5 Switzerland MAK-W 0.5 United Nations TWA 0.5 USA PEL 0.5

Fluorides (as F) mg/m3 mg/m3
ACGIH TLV 2.5
Austria MAK 2.5
Belgium TWA 2.5
Finland TWA 2.5
France TWA 2.5
Germany MAK 2.5
Hungary TWA 1; 2-STEL
Netherlands MAC-K 3.5
Norway TWA 0.6
Poland TWA 1; 3-STEL
Sweden NGV 2
Switzerland MAK-W 1.5; 3-KZ
United Kingdom TWA 2.5

Switzerland MAK-W 1.5; 3-KZG-W United Kingdom TWA 2.5

(Contd. on page 3)

(Contd. of page 2)

# Product name: Sodium hexafluoroantimonate (V)

2 2.5 Russia TWA Denmark TWA USA PEL 2.5

Additional information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Eye protection: Safety glasses
Body protection: Protective work clothing.

# 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance: Form:

Powder Color: White Odor: Odor threshold: Odorless Not determined. pH-value: Not applicable.

Change in condition Melting point/Melting range: 1360 °C (2480 °F) Not determined Boiling point/Boiling range: Sublimation temperature / start: Not determined

Flash point: Not applicable riasir point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

ower: Not determined Upper: Not determined Not applicable.

3.375 g/cm³ (28.164 lbs/gal) Not determined. Not applicable.

Vapor pressure:
Density at 20 °C (68 °F):
Relative density
Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Not applicable. 1286 g/l Soluble

Partition coefficient (n-octanol/water): Not determined. Viscosity:

dynamic: kinematic: Not applicable. Not applicable.

Other information No further relevant information available.

## 10 Stability and reactivity

Reactivity No information known.

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known

Conditions to avoid No further relevant information available.

Incompatible materials: Oxidizing agents
Hazardous decomposition products:
Hydrogen fluoride
Toxic metal compounds

# 11 Toxicological information

Information on toxicological effects

Information on toxicological effects
Acute toxicity:
Harmful if inhaled.
Harmful if swallowed.
LD/LC50 values that are relevant for classification: No data
Skin irritation or corrosion: Irritant to skin and mucous membranes.
Eye irritation or corrosion: Irritating effect.
Sonsitization: No sensitizing effects known.

Sensitization: No sensitizing effects known.
Germ cell mutagenicity: No effects known.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.

Subacute to chronic toxicity:

Antimony compounds may cause metallic taste, gastrointestinal disturbances, vomiting, diarrhea, dizziness and systemic poisoning. Chronic exposure may cause liver and kidney damage. Dermatitis and eczematous skin eruptions may result from skin contact. Fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Chronic fluoride poisoning can cause severe bone changes, loss of weight, anorexia, anemia and dental defects. The toxicity of sodium compounds is generally due to the anion.

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# Product name: Sodium hexafluoroantimonate (V)

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Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

# 12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Ecotoxical effects:

Perserk: Toxic for aquatic organisms

Remark: Toxic for aquatic organisms Additional ecological information:

General notes:
Do not allow product to reach ground water, water course or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

Toxic for aquatic organisms
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

Toxic to aquatic life.

May cause long lasting harmful effects to aquatic life.

Avoid transfer into the environment.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

## 13 Disposal considerations

Waste treatment methods

Waste treatment metrious
Recommendation Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information **UN-Number**

DOT, IMDG, IATA	UN1549
UN proper shipping name DOT IMDG, IATA	Antimony compounds, inorganic, solid, n.o.s. (Sodium hexafluoroantimonate (V)) ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (Sodium hexafluoroantimonate (V))

# Transport hazard class(es)

DOT



6.1 Toxic substances. Class Label 6.1 (T5) Toxic substances Label IMDG, IATA



Class 6.1 Toxic substances. Label

Packing group DOT, IMDG, IATA

Environmental hazards:

Environmentally hazardous substance, solid

Special precautions for user

Warning: Toxic substances

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

DOT

Marine Pollutant (DOT):

Nο

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UN "Model Regulation":

UN1549, Antimony compounds, inorganic, solid, n.o.s. (Sodium hexafluoroantimonate (V)), 6.1, III

# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms



Signal word Warning

Hazard statements H302+H332 Harmful if swallowed or if inhaled.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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# Product name: Sodium hexafluoroantimonate (V)

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
P312 Call a POISON CENTER/doctor/.../if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

# SARA Section 313 (specific toxic chemical listings)

16925-25-0 Sodium hexafluoroantimonate (V)

California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed.
Prop 65 - Developmental toxicity Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use:
For use only by technically qualified individuals.
This product contains antimony and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to know Act of 1986 and 40CFR372.

Other whole a limitation on a prohibition requirement.

Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods DOT: US Department of Transportation
IATA: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
VPWB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA