

SAFETY DATA SHEET

Version #: 06

Issue date: 22-May-2015 Revision date: 06-June-2024 Supersedes date: 15-January-2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Registration number

Synonyms Trisodium hexafluoroaluminate * ALUMINUM SODIUM HEXAFLUORIDE

Materion Code

1.1. Product identifier

Name of the substance Sodium Aluminum Fluoride **Identification number** 009-016-00-2 (Index number)

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

Identified uses Not available. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Materion Electronic Materials

Address 6070 Parkland Blvd

Mayfield Heights, OH 44124

United States

Division

1.216.383.4019 **Telephone**

e-mail Materion-PS@materion.com **Contact person Product Stewardship Director**

1.4. Emergency telephone

number

2AD **Document number**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.

Specific target organ toxicity - repeated H372 - Causes damage to organs Category 1 exposure through prolonged or repeated

exposure.

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2]

Hazard pictograms



Signal word Danger

Hazard statements

Harmful if swallowed. H302 Harmful if inhaled. H332

Material name: Sodium Aluminum Fluoride 1 / 13

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume.
P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response

P330 Rinse mouth.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P391 Collect spillage.

Storage Store away from incompatible materials.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

For further information, please contact the Product Stewardship Department at +1.800.862.4118.

2.3. Other hazardsThis substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

The substance is not included in the list catabilished in general many with PEACH Article 50(1) for

The substance is not included in the list established in accordance with REACH Article 59(1) for

having endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2]	100	13775-53-6 237-410-6	-	009-016-00-2	#
Classification:		4;H302, Acute Tox.	4;H332;(ATE: 1,5 mg/l), STC	OT RE 1;H372,	

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008. ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

The full text for all H-statements is displayed in section 16. The full text for all R- and H-phrases is displayed in section 16.

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SECTION 4: First aid measures

General information In the case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Rinse with water. Get medical attention if irritation develops and persists.

Eye contactDo not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. **Ingestion**Rinse mouth. IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

4.2. Most important Prolonged exposure may cause chronic effects.

symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

None known.

5.2. Special hazards arising from the substance or

mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective equipment.

Special firefighting

procedures

Use water spray to cool unopened containers. Water runoff can cause environmental damage.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhalation of dust. Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid inhalation of dust. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect spillage. Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimise dust generation and accumulation. Do not taste or swallow. Avoid breathing dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes; Upper-tier requirements = 500 tonnes)

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Oc

Austria. MAK List, OEL Ordinance Material	Type	Value	Form
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)	MAK	2,5 mg/m3	Inhalable fraction.
	STEL	12,5 mg/m3	Inhalable fraction.
Cyprus. OELs. Occupational Expo Agents) Reg., Ann. 1, R.A.A. 268		cals at Work (Safety and Hea	alth at Work (Chem.
Material	Туре	Value	
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)	TWA	2,5 mg/m3	
Czech Republic. Occupational ex		icals at work (Decree on pro	tection of health at wor
361/2007, Annex 2, Part A & An Material	Type	Value	
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)	Ceiling	5 mg/m3	
, [-] (TWA	2,5 mg/m3	
France. OELs. Indicative Occupa Material	tional Exposure Limits as Pr Type	escribed by Order of 30 June Value	e 2004, as amended
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)	VME	2,5 mg/m3	
France. Threshold Limit Values (Material	VLEP) for Occupational Expo Type	osure to Chemicals in France Value	e, INRS ED 984
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)	VME	2,5 mg/m3	
Regulatory status: Regulator	y indicative (VRI)		
Danislakov skolo 7 9 9	limit (M)	2 mg/m3	
Regulatory status: Indicative	. ,	stances at Washinters (B	Na 225/2007 1 V 00
Latvia. OELs. Occupational Expos Annex 1), as amended	sure Limits of Chemical Sub	stances at workplace (Reg.	NU. 323/ 2007, L.V. 80,
Material	Туре	Value	
trisodium hexafluoroaluminate [1] trisodium	TWA	2,5 mg/m3	

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n $^\circ$ 235/2016, as amended

Material	Туре	Value	
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)	TWA	2,5 mg/m3	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Material Value Type trisodium **TWA** 2,5 mg/m3

hexafluoroaluminate [1]

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

2 mg/m3

Material Value Type

STEL

hexafluoroaluminate [1]

trisodium

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended **Material Value Type**

trisodium TWA 2,5 mg/m3

hexafluoroaluminate [1]

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014) **Material Type** Value

trisodium **TWA** 2,5 mg/m3

hexafluoroaluminate [1]

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Material Value Type trisodium TWA 2,5 mg/m3 hexafluoroaluminate [1]

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites **Ambientales (VLAs)**

Material Value Type trisodium TWA 2,5 mg/m3 hexafluoroaluminate [1]

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

) [2] (CAS 13775-53-6)

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Material Type Value TWA trisodium 2,5 mg/m3 hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite

5 / 13

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Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Material	Value	Determinant	Specimen	Sampling Time
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryol) [2] (CAS 13775-53-6)	8 mg/g ite	Fluoride	Creatinine in urine	*
	4 mg/g	Fluoride	Creatinine in urine	*
	40 mmol/mol	Fluoride	Creatinine in urine	*
	24 mmol/mol	Fluoride	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Czech Republic. BELs. Government Decree 432/2003 Sb., as amended					
Material	Value	Determinant	Specimen	Sampling Time	
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryo) [2] (CAS 13775-53-6)	60 μmol/mmol lite	Fluoride	Creatinine in urine	*	
	10 mg/g	Fluoride	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS), ND 2065) **Material Value Determinant Specimen Sampling Time** trisodium **Fluorures** Creatinine in 3 mg/g hexafluoroaluminate [1] urine trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6) **Fluorures** Creatinine in 10 mg/g urine

Germany. TRGS 903, BAT List (Biological Limit Values) **Material Value Determinant Specimen Sampling Time** trisodium Fluorid Urine 4 mg/l

hexafluoroaluminate [1]

trisodium

hexafluoroaluminate(cryolite

) [2] (CAS 13775-53-6)

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Material	Value	Determinant	Specimen	Sampling Time
trisodium hexafluoroaluminate trisodium hexafluoroaluminate) [2] (CAS 13775-53	e(cryolite	fluorides	Creatinine in urine	*
	4 mg/g	fluorides	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Material name: Sodium Aluminum Fluoride

6 / 13

^{* -} For sampling details, please see the source document.

^{* -} For sampling details, please see the source document.

Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB)

Material	Value	Determinant	Specimen	Sampling Time	
trisodium hexafluoroaluminate [1 trisodium hexafluoroaluminate(c) [2] (CAS 13775-53-6	ryolite	Fluoruros	Urine	*	
	2 mg/l	Fluoruros	Urine	*	

^{* -} For sampling details, please see the source document.

Switzerland	. SUVA Grenzwerte am	Arbeitsplatz:	Aktuelle BAT-Werte
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Material	Value	Determinant	Specimen	Sampling Time	
trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryo) [2] (CAS 13775-53-6)	4 mg/l lite	Fluorid	Urine	*	

^{* -} For sampling details, please see the source document.

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

Not available.

(DNELs)

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

Hungary OELs: Skin designation

trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)

Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation 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.

Individual protection measures, such as personal protective equipment

General informationUse personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- **Other**Use of an impervious apron is recommended. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Contain spills and prevent releases and observe national regulations on emissions. Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateSolid.FormSolid.ColourNot available.

Odour Not available. Melting point/freezing point Not available. **Boiling point or initial boiling** Not available.

point and boiling range

Flammability Not available. Upper/lower flammability or explosive limits

Explosive limit - lower (Not available.

%)

Explosive limit - upper

Not available.

Flash point Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. рH Not available. Kinematic viscosity

Solubility

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water) (log value)

Not available. Vapour pressure Density and/or relative Not available.

density

Vapour density Not available. **Particle characteristics** Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard No relevant additional information available.

classes

9.2.2. Other safety characteristics

Molecular formula AIF6,3Na Molecular weight 19 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials None known.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Due to lack of data the classification is not possible. Due to lack of data the classification is not possible. **Eye contact**

Ingestion Harmful if swallowed.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if inhaled. Harmful if swallowed.

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible. Serious eye damage/eye Due to partial or complete lack of data the classification is not possible.

irritation

Material name: Sodium Aluminum Fluoride SDS FU 2AD Version #: 06 Revision date: 06-June-2024 Issue date: 22-May-2015

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

trisodium hexafluoroaluminate [1] trisodium

3 Not classifiable as to carcinogenicity to humans.

hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6) Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity

Due to partial or complete lack of data the classification is not possible.

- single exposure

Specific target organ toxicity

- repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to human health, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No

2017/2100 and (EU) 2018/605.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. Due

to partial or complete lack of data the classification for hazardous to the aquatic environment,

acute hazard, is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

Not available.

Partition coefficient n-octanol/water (log Kow)

Not available.

Bioconcentration factor (BCF)

12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This substance does not have endocrine disrupting properties with respect to the environment, as it

does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No

2017/2100 and (EU) 2018/605.

12.7. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

12.8. Additional information

Estonia Dangerous substances in soil Data

trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)

Fluoride (As F ion) 1200 mg/kg

Fluoride (As F ion) 2000 mg/kg Fluoride (As F ion) 450 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

DisposalCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into

its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trisodium hexafluoroaluminate [1]

name trisodium hexafluoroaluminate(cryolite) [2])

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Hazard No. (ADR) 90
Tunnel restriction code

14.4. Packing group III **14.5. Environmental** Yes

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trisodium hexafluoroaluminate [1]

name trisodium hexafluoroaluminate(cryolite) [2])

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
14.4. Packing group III
14.5. Environmental Yes

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trisodium hexafluoroaluminate [1]

name trisodium hexafluoroaluminate(cryolite) [2])

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
14.4. Packing group III
14.5. Environmental Yes

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN3077

14.2. UN proper shipping Environmentally hazardous substance, solid, n.o.s. (trisodium hexafluoroaluminate [1] trisodium

name hexafluoroaluminate(cryolite) [2])

14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental Yes
hazards

ERG Code 9L

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trisodium hexafluoroaluminate [1] 14.2. UN proper shipping

name trisodium hexafluoroaluminate(cryolite) [2]), MARINE POLLUTANT

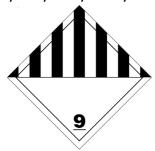
14.3. Transport hazard class(es)

Class **Subsidiary risk** 14.4. Packing group III 14.5. Environmental hazards Marine pollutant **EmS** F-A, S-F

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

trisodium hexafluoroaluminate [1] trisodium hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other EU regulations Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents.

> Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for

work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

trisodium hexafluoroaluminate [1] trisodium Affections professionnelles provoquées par le fluor, l'acide

hexafluoroaluminate(cryolite) [2] (CAS 13775-53-6) fluorhydrique et ses sels minéraux 32

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

Not available. Not applicable.

2AD Version #: 06 Revision date: 06-June-2024 Issue date: 22-May-2015

Material name: Sodium Aluminum Fluoride

SDS FU

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed. H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Revision information Training information Further information

This document has undergone significant changes and should be reviewed in its entirety.

Follow training instructions when handling this material.

Transportation Emergency

Call Chemtrec at: US: 800.424.9300

International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402

Chemtrec's toll free, mobile-enabled number in Germany - 0800 1817059

South Korea Toll-free Number - 080-880-0468

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regulations.

Material name: Sodium Aluminum Fluoride