

Material Safety Data Sheet

Honeywell**Tin(II) fluoride extra pure**

Version 1

Revision Date 02/05/2009

Print Date 05/10/2010

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Tin(II) fluoride extra pure
MSDS Number : 00000000079
Product Use Description : Chemical-Technical application

Company : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-322-2766
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701**
: **Transportation: 1-800-424-9300 or +1-703-527-3887**
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : colourless

Odor : stinging

Hazard Summary : Corrosive. Causes burns. Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Potential Health Effects

Skin : Causes skin burns.

Eyes : Causes eye burns.
Causes itching, burning, redness and tearing.
May cause irreversible eye damage.

Ingestion : Causes digestive tract burns.
Causes nausea, vomiting, diarrhea, and abdominal discomfort.

Inhalation : May be fatal if inhaled in large quantities.
Irritating to respiratory system.
Higher exposure may cause lung oedema, circulatory collapse and unconsciousness.

Chronic Exposure : Can cause bone and joint changes in humans (fluorosis).



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May cause lung damage.

Target Organs : Respiratory system
Bone
Teeth

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight %
Tin difluoride	7783-47-3	>99.00

SECTION 4. FIRST AID MEASURES

- Inhalation : Call a physician immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. First treatment with calcium gluconate paste. Call a physician immediately.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- Ingestion : Do not induce vomiting without medical advice. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Notes to physician

Treatment : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Flash point : not applicable
- Lower explosion limit : not applicable



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- Upper explosion limit : not applicable
- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
Cool closed containers exposed to fire with water spray.
- Specific hazards during fire fighting : In case of fire hazardous decomposition products may be produced such as:
Hydrogen fluoride
Tin oxide fumes.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.
- Additional advice : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment.
Evacuate personnel to safe areas.
Ensure adequate ventilation.
Avoid dust formation.
Do not swallow.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.
- Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Methods for cleaning up : Avoid dust formation.
Do not create a powder cloud by using a brush or compressed air.
Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

- Handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Keep container tightly closed.



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Avoid dust formation.
Do not swallow.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from heat and sources of ignition.
Protect from physical damage.
Store away from incompatible substances.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Avoid dust formation.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Goggles or face shield, giving complete protection to eyes

Hand protection : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : Respirator with a full face mask
Use NIOSH approved respiratory protection.

Hygiene measures : When using, do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.
Avoid dust formation.
Do not swallow.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

Exposure Guidelines

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Tin difluoride	7783-47-3	US CA OEL	TWA PEL		2.5 mg/m ³
		Expressed as		as F	
		ACGIH	TWA		2 mg/m ³
		Expressed as		as Sn	
		NIOSH	REL		2 mg/m ³
		Expressed as		as Sn	
		OSHA Z2	TWA		2.5 mg/m ³
		Form of exposure		Dust.	
		OSHA Z1	PEL		2 mg/m ³
		Expressed as		as Sn	
		OSHA Z1A	TWA		2 mg/m ³
		Expressed as		as Sn	
		ACGIH	TWA		2.5 mg/m ³
		Expressed as		as F	
		OSHA Z1	PEL		2.5 mg/m ³
		Expressed as		as F	
		OSHA Z1A	TWA		2.5 mg/m ³
		Expressed as		as F	
		NIOSH	REL		2.5 mg/m ³
		Expressed as		as F	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid
Color	: colourless
Odor	: stinging
Molecular Weight	: 156.71 g/mol
pH	: ca.2.8 - 3.5 at 4 g/125 °C (77 °F)
Melting point/range	: 210 - 215 °C (410 - 419 °F)
Density	: ca.4.780 g/cm ³ at 20 °C (68 °F)
Bulk density	: ca.2,270 kg/m ³



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Water solubility : 420 g/l

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat.

Materials to avoid : Strong oxidizing agents
Chlorine
Corrosive in contact with metals
Contact with strong acids liberates hydrogen fluoride.

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Hydrogen fluoride
Tin oxide fumes.

Hazardous reactions : Hazardous polymerisation does not occur.
Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: 360 mg/kg

Additional advice : Can cause bone and joint changes in humans (fluorosis).
May cause lung damage.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : Harmful to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Information: Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN-Number : 3260
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC,
N.O.S.



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	(Tin difluoride)
)
Class	: 8
Packing group	: III
Hazard Label	: 8

IATA

UN Number	: 3260
Description of the goods	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Tin difluoride)
Class	: 8
Packaging group	: III
Hazard Label	: 8
Packing instruction (cargo aircraft)	: 823
Packing instruction (passenger aircraft)	: 822
Packing instruction (passenger aircraft)	: Y822

IMDG

Substance No.	: UN 3260
Description of the goods	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TIN DIFLUORIDE)
)
Class	: 8
Packaging group	: III
Hazard Label	: 8
EmS Number	: F-A
Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION

Inventories

EU. EINECS : On the inventory, or in compliance with the inventory

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). : All components of this product are on the Canadian DSL list.



(508) 270-8433 • (800) 238-0001

American
International
Chemical, Inc.
135 Newbury Street
Framingham, MA 01701

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Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

New Jersey RTK : Tin difluoride 7783-47-3

Pennsylvania RTK : Tin difluoride 7783-47-3

WHMIS Classification : D1B
E

SECTION 16. OTHER INFORMATION



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	HMIS III	NFPA
Health Hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Further information

* - Chronic health hazard