

SAFETY DATA SHEET

1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: 2050, 2050-01, 2055
Nomenclature: Irritant Smoke Tube
Recommended use of the chemical & Restrictions on use:
Uses: Laboratory Chemicals, Testing
Company Name: Allegro Industries
Address: 1360 Shiloh Church Rd
Piedmont, SC 29673
864-846-8740
Chemtrac: 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3),
Respiratory system, H335
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

GHS Label elements, including precautionary statements Pictogram:



Signal Word: Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

3. COMPOSITION

Mixtures

Chemical characterization: Sealed glass tube, filled with pumice.

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
231-588-9	Stannic chloride, tin tetrachloride	10-12%
7646-78-8		
050-001-00-5	Skin Corr. 1B, Aquatic Chronic 3; H314 H318 H335 H412	

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4. FIRST AID MEASURES

Description of first aid measures after inhalation:	Not applicable for intact detector tubes. When indicator material is spilled: Call a physician immediately.
After contact with skin:	Not applicable for intact detector tubes. When indicator material is spilled: Wash off immediately with plenty of water.
After contact with eyes:	Not applicable for intact detector tubes. When indicator material is spilled: Rinse immediately with plenty of water, also under the eyelids. Consult an ophthalmologist immediately.
After ingestion:	Not applicable for intact detector tubes. When indicator material is spilled: Call a physician immediately.

5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable extinguishing media:	The product itself does not burn. Use extinguishing measures that are appropriate to the environment.
Extinguishing media which must not be used for safety reasons:	None
Special hazards arising from the substance or mixture:	None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Release not possible if used properly.
Methods and material for containment and cleaning up:	When indicator material is spilled: Dilute with water. Soak up the product with absorbent, non-flammable material. Avoid contact of breakage of glass and indicator material. Dispose of as described in chapter 13.

7. HANDLING AND STORAGE

Precautions for safe handling	
Advice on safe handling:	See the specific instruction for use.
Advice on protection against fire and explosion:	No special precautions required.
Conditions for safe storage, including any incompatibilities	
Advice on storage compatibility:	Do not store together with edibles.
Further information on storage conditions:	Store in cool place. Recommended storage temperature: 20°C

8. EXPOSURE CONTROLS

Control parameters	
Additional advice on limit values:	Release not possible if used properly.
Exposure controls	
Protective and hygiene measures:	
Avoid contact with eyes or skin after breaking of the tube tips.	
Avoid contact of breakage of glass and indicator material. Do not take up glass breakage and content of the tube with bare hands. Wash hands before breaks and at the end of the workday.	
Respiratory protection:	Not required.
Hand protection:	Not required. When indicator material is spilled: Use protective gloves made out of: Nitrile rubber, butyl rubber
Eye protection:	Not required.
Skin protection:	Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		
Physical state:	Granules in a glass tube.	
Colour:	grey	
Odour:	pungent	
		Test method
pH-Value (at 20 °C):	2	50 g/l water
Changes in the physical state		
Melting point:	N/A	

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Boiling point: N/A
Flash point: N/A
Lower explosion limits: N/A
Upper explosion limits: N/A
Vapour pressure: N/A
Water solubility (at 20 °C): Low solubility
Viscosity / dynamic: N/A

10. STABILITY AND REACTIVITY

Reactivity: None if handled correctly in accordance with the instructions for use.
Chemical Stability: Stable under proper storage and handling.
Possibility of hazardous reactions: None if handled correctly in accordance with the instructions for use.
Conditions to avoid: None if handled correctly in accordance with the instructions for use.
Incompatible materials: None if handled correctly in accordance with the instructions for use.
Hazardous decomposition products: No decomposition if stored and applied as directed.
Further information: After the opening of the tube: sensitive to water

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Toxicokinetics, metabolism and distribution: No data available.
Acute Toxicity: When indicator material is spilled: No data available.
 Tin(IV)chloride: LC50/inhalative/4h/rat : 1,4 mg/l (literature value)
Irritation and corrosivity: Not applicable for intact detector tubes. When indicator material is spilled: Irritating eyes, respirator system and skin.
Sensitising effects: No known sensitizing effect.
Carcinogenic/mutagenic/toxic effects for reproduction: Tin(IV)chloride: Mutagenicity Micronucleus None. Not mutagenic in AMES Test.

12. ECOLOGICAL INFORMATION

CAS No	Chemical Name	Method	Dose	Species	h
7646-78-8	Stannic chloride, tin tetrachloride				
	Acute fish toxicity	LC50	>1000 mg/l	Brachydani o rerio	96
	Acute crustacean toxicity	EC50	21,5 mg/l	Daphnia Magna	48

Persistence and degradability: No data available.
Bio-accumulative potential: No data available.
Mobility in Soil: No data available.
Results of PBT and vPvB assessment: The products does not contain any substance which meets the PBT criteria (persistent/bio-accumulative/toxic) or the vPvB criteria (very persistent/very bio-accumulative).
Other adverse effects: No data available.
Further information: When indicator material is spilled: Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation Waste disposal number of waste from residues/unused products:
 150202
 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS,
 FILTER MATERIALS AND PROTECTIVE CLOTHING NOT
 OTHERWISE SPECIFIED; absorbents, filter materials, wiping
 cloths and protective clothing; absorbents, filter materials
 (including oil filters not otherwise specified), wiping cloths,
 protective clothing contaminated by dangerous substances
 1) Tubes no longer generating smoke require no special treatment

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prior to disposal.

2) Do not dispose of used smoke tubes until they no longer produce smoke otherwise place the tubes in water with baking soda to neutralize any acidity of the reagent.

3) Take precautions to prevent the contents from entering creeks, rain water run-off, sewers or water supplies.

4) Follow all local, state and federal laws and regulations regarding waste

5) A box of detector tubes contain less than 0.5 grams of hazardous materials and as such are classified a small quantity exception for transportation (49 CFR 173.4) and require no special shipping consideration.

Recommendation Waste disposal number of contaminated packaging:

150101

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); paper and cardboard packaging

14. TRANSPORT INFORMATION

A box of Uniphos detector tubes contain less than 0.5 grams of hazardous materials and as such are classified as small quantity exception for transportation (49 CFR 173.4) and require no special shipping consideration.

Land transport (ADR/RID)

Other applicable information (land transport):

Not classified as dangerous regarding transport regulations.

Inland waterways transport

Other applicable information (inland waterways transport):

Not classified as dangerous regarding transport regulations.

Marine transport

Other applicable information (marine transport):

Not classified as dangerous regarding transport regulations.

Air transport

Other applicable information (transport):

Not classified as dangerous regarding transport regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3:

Further information:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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