

## Offer Sheet

Product	Antimony Trioxide Dust-free (contains 3% DIDP)
Quantity	8 pallets (352 bags total)
Availability	One time
Location	Kissimmee, FL
Manufacturer	
Date	3/7/25
COA & SDS	Attached



Potential uses: Enhances flame resistance by promoting char formation and suppressing smoke. Used with halogenated flame retardants in polyvinyl chloride (PVC), polyethylene, polypropylene, polystyrene and polyesters.

If interested, please call or text:

**Brian Svrusis**

Solvent Systems International

70 King St.

Elk Grove Village, IL 60007

847-323-6718 call or text

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NNN® Brand

**3N International, Inc.**

**NNN® LT-DI**

**Antimony Trioxide**

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**Chemical Name:** Antimony Trioxide  
**Molecular Formula:** Sb<sub>2</sub>O<sub>3</sub>  
**CAS No.:** 1309-64-4

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**Description** NNN® LT-DI is dust free version of low tint antimony trioxide, wetted with about 3% DIDP. It is of high purity with very low impurities and tight particle size distribution. It is an environment friendly product.

**Application** Plastics, cable and wires, rubbers, paper, pigment, etc.

**Typical Properties**

Appearance:	White powder or granules.
Sb <sub>2</sub> O <sub>3</sub> :	97 +/- 1 %
PbO:	0.08% max.
As <sub>2</sub> O <sub>3</sub> :	0.05% max.
Average particle size before wet:	2.0-2.5 µm

**Packing:** In bags of 50 lb net each, 44 bags per pallet on pallet. Other packing is available at request.

**Safety and Handling** Please refer to the current SDS which is available upon request.

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The information presented herein is believed to be accurate and reliable. Since conditions of use are beyond our control, all risks are assumed by the user. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. No representation is expressed or implied, and nothing herein shall be construed as permission or recommendation to practice a patented invention without license.

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**3N International, Inc.**  
2805 Scenic Ln, Kissimmee, FL 34744  
Tel: 689-271-6007 email: info@3ninc.com. Website: www.3ninc.com

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**Product Name: Antimony Trioxide HT-DI****SAFETY DATA SHEET (SDS)**

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**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME: Antimony Trioxide LT-DI  
SYNONYMS: Antimony Oxide LT Grade With 3% DIDP,  
CHEMICAL NAME: Mixture  
BRAND NAME: NNN<sup>®</sup> Brand  
GRADES: LT Grade With 3% DIDP  
PRODUCT USE: Flame retardant synergist

SUPPLIER: 3N INTERNATIONAL, INC. TEL:(689) 271-6007  
2805 Scenic Ln  
Kissimmee, FL 34744

EMERGENCY: **1-330-665-3821 (USA)**

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**Section 2: HAZARD IDENTIFICATION**

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Emergency Overview: White to off-white pellets. Dust free. Odorless.

On August 28, 2014, the US EPA released the final risk assessment that indicated no concern for the use of antimony trioxide as a synergist in halogenated flame retardants.

GHS Classification in accordance with OSHA HCS (29CFR1910):

H351 Suspected of causing cancer by inhalation (Carc. 2).

GHS labeling elements, including precautionary statements:

Pictogram  
(GHS08:  
Health Hazard)  
Signal word:



Warning

Hazard statement(s):

H351 Suspected of causing cancer by inhalation (Carc. 2).

Precautionary statement(s):

P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective clothing, protective gloves, eye protection.  
P281 Use personal protective equipment as required.  
P308+P313 If exposed or concerned: Get medical advice/attention.  
P405: Store locked up.



P501 Dispose of contents/container to comply with applicable local, national and international regulation.

NFPA Codes: Health: 2 Flammability: 0  
 Reactivity: 0 Other: N  
 HMIS Codes: Health: 2\* Flammability: 0  
 Reactivity: 0 Other: X  
 (\* indicates chronic health hazard.)

**Potential Health Effects:**

Inhalation: May cause irritation to the respiratory tract and mucous membranes.  
 Skin/eye: Moderately irritation to skin and eyes.  
 Ingestion: May be harmful if swallowed.

**Carcinogenicity:**

IARC Class 2B: Possible carcinogenic to humans.

OSHA No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated by NTP.

ACGIH Suspected human carcinogen.

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**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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CHEMICAL FORMULA: Mixture  
 MOLECULAR WEIGHT: Not available

Identity	CAS No.	%	Exposure Limits		
			ACGIH TLV TWA	ACGIH TLV STEL/CEIL OSHA PEL STEL/ CEIL	OSHA PEL TWA
Antimony Oxide	1309-64-4	97	0.5 mg/m <sup>3</sup> as Sb	None	0.5 mg/m <sup>3</sup> as Sb
Diisodecyl Phthalate	68515-49-1	3	5 mg/m <sup>3</sup> for similar phthalate esters	None	5 mg/m <sup>3</sup> for similar phthalate esters

Additional Limits for antimony trioxide: NIOSH REL = 0.5 mg/m<sup>3</sup>

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**Section 4: FIRST AID MEASURES**

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**GENERAL:** Never give anything by mouth to an unconscious person. If not feeling well, seek medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.



**EYE CONTACT:** Flush eyes thoroughly with water for at least 15 minutes. Call a physician.

**SKIN CONTACT:** Flush skin with plenty of water. If irritation occurs, consult a physician.

**INGESTION:** Swallowing-if conscious, drink a quart of water. Then induce vomiting by placing a finger far back in the throat. Call a physician. If vomiting cannot be induced, take immediately to a physician or a hospital. Do not induce vomiting or give anything by mouth to an unconscious person.

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#### Section 5: FIRE FIGHTING MEASURES

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Flammability Classification:	Non-flammable solid.
Extinguishing media:	All conventional media are suitable. Use extinguishing media appropriate to surrounding fire conditions
Special fire-fighting procedures:	In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.
Unusual fire and explosion hazards:	Not applicable
Fire and explosion hazards:	Not applicable

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#### Section 6: ACCIDENTAL RELEASE MEASURES

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**STEPS TO TAKE IF MATERIAL IS SPILLED OR LEAKED:** Vacuum all visible spilled material and place in closed plastic bags for disposal; thoroughly flush area of spill with water. Water flush should be used only after all visible material has been vacuumed. Do not flush spilled material to sewer.

**WASTE DISPOSAL METHOD:** Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with the clean air act, the clean water act, the resource conservation and recovery act and all state and local laws/regulations regarding disposal.

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#### Section 7: HANDLING AND STORAGE

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**Handling:** Handle full and empty bags in a manner which will minimize dusting. Wear long-sleeved clothing, rubber gloves and approved eye protection. Respiratory protection must be worn where potential exposure to dust may occur. Respiratory protection must be NIOSH/MSHA approved for protection against dust. Empty containers should be disposed of in a manner which will not cause dusting during transportation or from the ultimate disposal site.

**Storage:** Store in a dry, well-ventilated area. Do not store in open, unlabeled or mislabeled containers.

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#### Section 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

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**Work place engineering control parameters:** See Section 3 for exposure limits.

**Ventilation:** Local exhaust is recommended. Mechanical (general) is required.

**Respiratory Protection:** NIOSH/MHSA approved dust respirator in accordance with 29 CFR 1910.134, or



a half face respirator with a high efficiency (HEPA) dust cartridge.

Eye and Face Protection: Approved safety glasses or chemical worker goggles. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Long-sleeved clothing, boots, safety shower and eyewash fountain in close proximity.

Other Clothing and Equipment: Clean work clothing should be provided daily. General duty gloves are recommended to prevent contact. An eyewash and safety shower should be readily accessible to employees handling this product.

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#### Section 9: PHYSICAL AND CHEMICAL DATA

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Appearance and odor:	White to off-white pellets, odorless
Physical state:	Solid
Boiling point @ 760 mm HG:	1425°C (2597°F)
Vapor density (Air =1)	Not available
Specific gravity (H2O =1)	5.2 – 5.7
PH value:	Not available
PH concentration:	Not available
Freezing/Melting point:	Not available
Decomposition temperature:	Not available
Solubility (weight % in water):	Insoluble
Bulk density:	Not available
Volume % volatile:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Evaporation rate:	Not available
Reactivity in water"	Not water reactive
Heat of solution:	Not available

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#### Section 10: STABILITY AND REACTIVITY

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Stability:	Stable under normal conditions of handling and use
-Conditions to Avoid:	Extreme humidity
Hazardous polymerization:	Will not occur
-Conditions to Avoid:	None
Incompatibility (materials to avoid):	Strong acid; strong oxidizers
Hazardous decomposition products:	Antimony oxides
Hazardous reactions:	Will not occur

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#### Section 11: TOXICOLOGICAL INFORMATION

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Value (LD50 or LC 50)	Animal	Routes	Components
> 2 g/kg	Rabbits	Acute Dermal	Antimony trioxide



> 34.6 g/kg	Rats	Acute Ingestion	Antimony trioxide
172 mg/kg	Mice	Acute Intraperitoneal	Antimony trioxide
3.25 mg/kg	Rats	Acute Intraperitoneal	Antimony trioxide

Toxicological Information:

Prolonged and excessive inhalation exposures to antimony or antimony trioxide may result in inflammation or the lungs, airway obstruction, bronchospasms, chronic bronchitis, reproductive effects, cardiovascular effects, gastrointestinal discomfort and ulcers, liver effects, blood effects, and neurological effects (muscle weakness, abnormal gait). In a 90-day oral study in, no adverse effects were observed at doses of 1,000, 5,000, and 20,000 ppm. The No Adverse Effect Level for antimony trioxide was 20,000 ppm.

Antimony trioxide has been classified by IARC as a Class 2B. An IARC Class 2B material exhibits sufficient evidence in animal tests (possible human carcinogen). Antimony trioxide production has been determined by ACGIH to be a carcinogen risk. Antimony trioxide has been identified by the EPA as a suspected lung carcinogen. Historical studies have concluded that exposure to elevated levels of antimony trioxide may cause lung carcinoma. However, the most recent study conducted under the EPA's Voluntary Test Program by Antimony Oxide Industry Association, has concluded that antimony does not cause lung cancer in rats at occupational exposure levels. The levels tested ranged from 0.05 mg/l to 5 mg/l (from one tenth to ten times the OSHA TWA Threshold Limit Value).

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Section 12: ECOLOGICAL INFORMATION

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LD50-96 in bluegill sunfish (*Lepomis macrochirus*) > 530 mg/l  
LC50-96 in Fathead minnow (*Pimephales promelas*) = 833 mg/l  
EC50-48 in *Daphnia Magna* > 1000 mg/l (Janssen Biotech 8/6/90)  
LC50-96H in *Brachydan Rerio* > 1000 mg/l (Janssen Biotech 8/6/90)  
ErC50-72 in *Sel. Capricornut* = 67 mg/l (Lisec 8/6/94)

This ErC50-72 value for *Sel. Capricornut* is not relevant since the toxicity level is much higher than the solubility level of Sb<sub>2</sub>O<sub>3</sub> in water. This value can be explained by a cloudy effect from the Sb<sub>2</sub>O<sub>3</sub> not dissolved in water which influences the growth of the algae by a shortage of light.

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Section 13: DISPOSAL CONSIDERATIONS

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Recover, reclaim or recycle when practical. Dispose of in an approved landfill if allowed locally. Comply with all Federal, State and local regulations. Dispose of in a permitted waste management facility if incineration or landfill is not practical.

Note: Chemical additions to, processing or, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

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Section 14: TRANSPORTATION

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US DOT: Not dangerous goods



PACKAGE SIZE: 999 lb or less  
PROPER SHIPPING NAME: NOT REGULATED

PACKAGE SIZE: 1,000 lb or more  
PROPER SHIPPING NAME: RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (ANTIMONY TRIOXIDE), 9, UN3077 PG III  
HAZARD CLASS: 9

RQ (lb): 1,000

IMO / IMDG: Not dangerous goods

ICAO / IATA: Not dangerous goods

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#### Section 15: REGULATORY INFORMATION

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U.S. Federal Regulations: This product contains antimony and is subject to the U.S. EPA reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR372. The ingredients of this product are on the EPA TSCA Inventory. TSCA Inventory notification: Active.

#### SARA Title III

Section 302: This product does not contain any chemicals currently on the Extremely Hazardous Substance List, Section 302, SARA Title III, above the OSHA de minimis concentration.

Section 311/312 Hazard Classification: Acute: Yes Chronic: Yes Reactive: No Fire: No Pressure: No

Section 313: This product contains chemicals which are listed on the Toxic List, Section 313, SARA Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Antimony trioxide (CAS No. 1309-64-4).

#### State Regulations:

Antimony trioxide (CAS No. 1309-64-4):

California Proposition 65: This product contains a chemical known by the State of California to cause cancer.

New Jersey Right to Know Hazardous Substance List (1% reporting limit)

Massachusetts Substance List

Pennsylvania Environmental Hazard List

#### International Regulations:

This material (or each component) is listed on the following inventories:

Canada – DSL; WHMIS Hazard Class and Division = D.2.a, D.2.b.

EU – EINECS. EC No. 215-175-0. Index No. 051-005-00-X.

Australia – AICS

Japan – ENCS

Korea – PICCS

China – List I





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**Section 16: OTHER INFORMATION**

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Abbreviations: ACGIH = American Conference of Governmental Industrial Hygienists  
CAS = Chemical Abstract Services  
CEPA = Canadian Environmental Protection Act  
CERCLA = Comprehensive Environmental Response, Compensation,  
and Liability Act of 1980  
CFR = Code of Federal Regulations  
DOT = Department of Transportation  
DSL = Domestic Substances List  
EINECS = European Inventory of Existing Commercial Chemicals Substances  
EPA = Environmental Protection Agency  
GHS = Global Harmonized System of Classification and Labeling of Chemicals  
HMIS = Hazardous Materials Identification System  
HSDB = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
IATA = International Air Aviation Association  
ICAO = International Civil Aviation Organization  
IMO = International Maritime Organization  
IMDG = International Maritime Dangerous Goods  
LOEC = Lowest Observed Effect Concentration  
MATC = Max. Acceptable Toxicant Concentration  
NFPA = National Fire Protection Association  
NIOSH = National Institute of Occupational Safety and Health  
NL = Not Limited  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
NOEL = No Observed Effect Level  
NR = Not Rated  
NTP = National Toxicology Program  
OSHA = Occupational Safety and Health Administration  
PEL = Permissible Exposure Limit  
PNOC = Particulates Not Otherwise Classified  
PNOR = Particulates Not Otherwise Regulated.  
RCRA = Resource Conservation and Recovery Act  
REL = Recommended Exposure Limit  
RQ = Reportable Quantity  
SARA = Superfund Amendments and Reauthorization Act  
STEL = Short Term Exposure Limit  
TLV = Threshold Limit Values  
TSCA = Toxic Substance Control Act  
TWA = Time Weighted Average  
WHMIS = Workplace Hazardous Materials Information System

**ADDITIONAL INFORMATION:**

The information set forth herein has been gathered from standard reference materials test data, and is to the



best knowledge and belief of 3N International, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. 3N International, Inc. makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.