

Safety Data Sheet acc. to OSHA HCS

Printing date 02/10/2017

Version Number 1

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

- · Product identifier
- Trade name: 2,4'-DDT Neat
- · Part number: PST-271-50MG
- · CAS Number: 789-02-6
- · EC number:
- 212-332-5
- · Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet

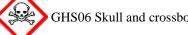
· Manufacturer/Supplier: ULTRA Scientific, inc. 250 Smith Street North Kingstown, RI 02852 USA

· Information department:

Telephone: (401) 294-9400 Fax: (401) 295-2300 E-mail: regulatory@ultrasci.com • Emergency telephone number: US: (800) 424-9300 Outside US: (703) 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones



GHS08 Health hazard

Acute Tox. 3 H301 Toxic if swallowed.

H351 Suspected of causing cancer. Carc. 2

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling:
- 2,2,2,0,p'-pentachloroethylidenebisbenzene
- · Hazard statements
- Toxic if swallowed.

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Suspected of causing cancer.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wear protective gloves/protective clothing/eye protection/face protection.	
Wash thoroughly after handling. Do not eat, drink or smoke when using this product.	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
Specific treatment (see on this label).	
IF exposed or concerned: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
Rinse mouth.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
Classification system:	
· NFPA ratings (scale 0 - 4)	
Health $= 3$	
Fire = 0	
$\frac{3}{\text{Reactivity}} = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 3 Health = 3	
FIRE 0 Fire = 0	
REACTIVITY Reactivity = 0	
· Other hazards Desults of DDT and aDr.D. association to	
• Results of PBT and vPvB assessment	
• PBT: Not applicable. • vPvB: Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Substances	
· CAS No. Description	
789-02-6 2,2,2,0,p'-pentachloroethylidenebisbenzene	
· Identification number(s)	
• EC number: 212-332-5	
4 First-aid measures	
· Description of first aid measures	

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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- After swallowing: Do not induce vomiting; immediately call for medical help.
- · 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: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · 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.
- · Protective Action Criteria for Chemicals
- · PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

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Trade name: 2,4'-DDT Neat

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

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

At this time, the other constituents have no known exposure limits.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

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9 Physical and chemical proper	rties
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Solid
Color:	Not determined.
 Odor: Odor threshold: 	Characteristic Not determined.
· pH-value:	
•	Not applicable.
· Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
0. 0 0	
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble.
\cdot Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0.0 g/l / 0.00 lb/gl
 Other information 	No further relevant information available.

10 Stability and reactivity

• **Reactivity** No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

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• Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 100 mg/kg

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- · Carcinogenic categories
- \cdot IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- $\cdot \ Toxicity$
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- \cdot Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- Danger to drinking water if even extremely small quantities leak into the ground.
- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, IMDG, IATA	UN2761
UN proper shipping name DOT IMDG, IATA	Organochlorine pesticides, solid, toxic (2,2,2,0,p'- pentachloroethylidenebisbenzene) ORGANOCHLORINE PESTICIDE, SOLID, TOXIC (2,2,2,0,p'- pentachloroethylidenebisbenzene)
Transport hazard class(es)	
DOT	
TOXIC s	
Class Label	6.1 Toxic substances 6.1
IMDG, IATA	
Class Label	6.1 Toxic substances6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user Danger code (Kemler): EMS Number: Stowage Category Stowage Code	Warning: Toxic substances 60 6.1-04 A SW2 Clear of living quarters.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
IMDG Limited quantities (LQ)	5 kg





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· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 2761 ORGANOCHLORINE PESTICIDES, SOLID, TOXIC (2,2,2,0,P'-PENTACHLOROETHYLIDENEBISBENZENE), 6.1, III

15 Regulatory information

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

- \cdot Section 355 (extremely hazardous substances):
- Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

 \cdot TSCA (Toxic Substances Control Act):

Substance is not listed.

· Proposition 65

 \cdot Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is listed.

· Chemicals known to cause developmental toxicity:

Substance is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

 \cdot TLV (Threshold Limit Value established by ACGIH)

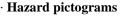
Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).





· Signal word Danger

• **Hazard-determining components of labeling:** 2,2,2,o,p'-pentachloroethylidenebisbenzene



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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value

Acute Tox. 3: Acute toxicity – Category 3 Carc. 2: Carcinogenicity – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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