THE HANSON GROUP, LLC
GOOD PEOPLE, GREAT SCIENCE

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MATERIAL SAFETY DATA SHEET
HXA UV-770

1. Substance/preparation and company name

Trade name: HXA UV-770

Company:
THE HANSON GROUP, LLC
3044 Adriatic Court
Peachtree Corners, GA 30071
TEL: 770-495-9554 FAX: 770-495-9449
Emergency telephone number: CHEMTREC: 1-800-424-9300

2. Hazard Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Eye Damage/Irritation	1	Serious eye damage/eye irritation
Aquatic Acute	1	Hazardous to the aquatic environment – acute
Aquatic Chronic	2	Hazardous to the aquatic environment – chronic

Label Elements

Pictogram:

Signal Word:
Warning

Hazard Statement:
H318 Causes serious eye damage.

H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear eye/face protection.
P273	Avoid release to the environment.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

The product is under certain conditions capable of dust explosion.

Labeling of special preparations (GHS):

To avoid inhalation hazard, do not grind.

This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

WARNING:

Toxic by inhalation.

Severely irritating to the eyes.

May cause sensitization by skin contact.

Repeated or prolonged contact may cause skin irritation or allergic skin reactions.

MAY BE HARMFUL IF SWALLOWED.

May cause metallic taste in mouth.

Prolonged or repeated exposure effects:

CAN CAUSE NERVOUS SYSTEM DAMAGE.

Refer to MSDS Section 7 and 10 for Dust Explosion information.

Avoid contact with the skin, eyes and clothing.

Avoid inhalation.

3. Composition / Information on Ingredients

Chemical name	: Bis (2,2,6,6-Tetramethyl-4-piperidyl)sebacate
CAS No.	: 52829-07-9

EC No. : 258-207-9

REACH Pre-Registration Reference NO. : 05-2114518070-65-0000

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4. First aid measures

If inhaled:

Remove to fresh air and summon medical help if respiratory irritation develops or if breathing becomes difficult.

On skin contact:

Wipe away excess material with dry towel and then wash affected areas with plenty of water for several minutes. Get medical attention immediately if irritation occurs.

On contact with eyes:

Immediately wash affected eyes for several minutes under running water with eyelids held open. Get medical attention immediately if irritation occurs.

If swallowed:

Wash out mouth with water and then drink plenty of water and summon physician. Do not give anything by mouth to an unconscious or convulsing person.

5. Fire fighting and measures

Flash point: > 150 °C

Decomposition temperature: > 220 °C

Autoignition: 310 °C

Flammable limits: Not determined

Extinguishing media: Carbon dioxide, foam, dry chemical, water spray.

Fire fighting procedures-special: Use self-contained breathing apparatus.

6. Accidental release measures

Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Use personal protective clothing.

Environmental precautions: Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up: Nonsparking tools should be used.

7. Handling and storage

Handling precautions: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. For industrial use only.

Shipping and storing precautions: Keep container tightly closed when not in use and during transport.

Personal hygiene: Wash thoroughly after handling.

DANGER! EXPLOSION RISK

- Risk of explosion if an air dust mixture forms
- Avoid creating dusty conditions

- Empty only into grounded containers
- If container is larger than 550 US gallon (2,000 Liter) in volume, or when flammable solvents are present, the container must be inserted or the system otherwise designed to prevent an explosion.

ALWAYS GROUND THE PACKAGING BEFORE EMPTYING.

8. Exposure controls and personal protection

Advice on system design:

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Eye protection : Safety goggles are recommended.

Skin protection : Glove and lab coat is recommended.

Respiratory protection : Suitable dust mask is recommended where dust arises from use.

9. Physical and chemical properties

Appearance : White crystalline powder

Odor : Faint

Melting point : 81-85 °C

Vapor pressure : 1.3 x 10^{-8} Pa

Solubility in water : Insoluble

Specific gravity : ca. 1.05 @20 °C (H_2O = 1)

10. Stability and reactivity

Stability : Stable

Incompatibilities : Strong oxidizing agents and strong bases.

Hazardous decomposition products:

Thermal decomposition and burning may produce carbon monoxide, nitrogen and other toxic gases and vapors.

11. Toxicological information

Acute effects

No identified health effects.

Toxicity Data:

Primary routes of exposure: Dermal, ingestion and inhalation.

Threshold limit value: None established.

Additional information:

Oral LD_{50} (rats)	:	3,700 MG/KG
Skin irritation (rabbits)	:	Non-irritant
Skin sensitization (guinea pigs)	:	Negative
Eye irritation (rabbits)	:	Non-irritant

12. Ecological information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when

introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish: LC50 (96 h) 4.4 mg/l, Lepomis macrochirus (OECD 203; ISO 7346; 92/69/EEC, C.1, Flow through.) The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates: EC50 (48 h) 8.6 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) The statement of the toxic effect relates to the analytically determined concentration.

Aquatic plants: EC10 (72 h) 0.188 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

EC50 (72 h) 0.705 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Chronic toxicity to fish: Study scientifically not justified.

Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d) 0.23 mg/l, Daphnia magna (OECD Guideline 211, semistatic) The statement of the toxic effect relates to the analytically determined concentration.

13. Disposal considerations

Waste disposal method:

Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Follow all federal, state and local regulations.

14. Transport information

DOT proper shipping name:

Not regulated as a hazardous material by the U.S. dept. of transportation

(DOT) 49 CFR 172.101 HAZADOUS MATERIAL TABLE.

DOT class: None

DOT number: None

IATA proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE)

IATA hazard class: 9

UN/ID number: UN 3077

Packing group: III

IMDG proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) SEBACATE)

IMDG hazard class: 9

UN/ID number: UN 3077

Packing group: III

HMIS Rating	**:**	Health: 1	Flammability: 1	Reactivity: 0
NFPA Rating	**:**	Health: 1	Flammability: 1	Reactivity: 0

15. Regulatory information

HXA UV-770 is listed on the following inventories:

Australia: AICS	Canada: DSL	China: ENCS	Europe: EINECS
Japan: MITI	Korea: ECL	Philippines: PICCS	USA: TSCA

RCRA status: Not a hazardous waste under RCRA (40 CFR 261).

CERCLA status: Not listed.

Xi: Irritant.

N: Dangerous to the environment.

R36: Irritating the eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SARA/TITLE III - TOXIC CHEMICALS LIST:

This product does not contain a toxic chemical for routine annual toxic chemical release reporting under sec. 313 (40 CFR 372).

16. Other information

Shelf life: 2 years minimum in sealed containers protected from light and air. After 2 years, retest material.

Suggested uses: Light stabilizer for organic polymers.

The information and recommendations contained herein are based upon data believed to be correct. However, no guaranty or warranty of any kind expressed or implied is made with respect to the information contained here.