



Safety Data Sheet

Leonardite Humic Acid Standard

SECTION 1: Identification

1.1 Product identifier

Product name Leonardite Humic Acid Standard

1.2 Other means of identification

Humic Acid

1.3 Recommended use of the chemical and restrictions on use

To be used in scientific research on the structure and function of humic substances in soil and water.

1.4 Supplier's details

Name International Humic Substances Society
Address 1991 Upper Buford Circle, Room 439
St. Paul, MN 55108
USA

Telephone +1 (612) 626-1204
Fax +1 (612) 626-1929
Email ihss@umn.edu

1.5 Emergency phone number(s)

+1 (612) 626-1204

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2
- Combustible dusts

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation

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H319 Causes serious eye irritation
— May form combustible dust concentrations in air

Precautionary statement(s)

P264 Wash hands and exposed skin thoroughly after handling.
P280 Wear eye protection/face protection/protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

2.3 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition/information on ingredients

Component	Concentration
Humic Acid (CAS no.: not available) *	100 % (weight)

*Humic acid is a complex natural mixture

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled Remove to fresh air and promote deep breathing. Get medical attention if effects persist.

In case of skin contact Wash with plenty of soap and water. Get medical attention if irritation develops or persists. Take off contaminated clothing and wash it before reuse.

In case of eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.

If swallowed Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

If inhaled Dust may cause respiratory irritation. Signs/symptoms may include shortness of breath, tightness of the chest, a sore throat and cough.

In case of skin contact Causes skin irritation. Signs/symptoms may include dryness, localized redness, and itching.

In case of eye contact Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.



If swallowed

May be harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically and supportively.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

May form combustible dust concentrations in air. Large dust clouds from the product have the potential to ignite explosively. Hazardous combustion products: carbon oxides and other potentially toxic gases and fumes.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary. Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid formation of explosive suspended dust or powder. Remove all sources of ignition. Wear personal protection recommended in Section 8.

6.2 Environmental precautions

No special environmental precautions.

6.3 Methods and materials for containment and cleaning up

Keep all ignition sources away. Prevent further leakage or spillage if safe to do so. Sweep up and/or clean with an explosion proof vacuum without creating suspended dust. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Avoid accumulation of dusts, which can lead to a serious hazard of dust explosion. Keep all ignition sources away. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash hands with soap and water after handling. Do not eat, drink or smoke while handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place. Comply with all applicable health and safety regulations, fire and building codes.



Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No applicable substance specific occupational exposure limits.

Particulates Not Otherwise Regulated (PNOR)

PEL-TWA: 5 mg/m³ (*15 mppcf) [respirable fraction], 15 mg/m³ (*50 mppcf) [total dust] (OSHA)

PEL-TWA: 5 mg/m³ (respirable fraction), 10 mg/m³ (total dust) (Cal/OSHA)

8.2 Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Provide general ventilation or local exhaust ventilation to minimize exposure to dust and maintain airborne concentrations below OSHA PELs or other specified exposure limits. Use explosion-proof electrical/ventilating/lighting/equipment.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety goggles are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear protective gloves (for hands) and protective clothing.

Body protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific workplace.

Respiratory protection

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate air-purifying respirator with particulate filter (HEPA), or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Thermal hazards

No data available.

Environmental exposure controls

No special environmental precautions.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid.
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	300 °C (572 °F)
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.

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Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	Not applicable.
Relative density	No data available.
Density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal use conditions.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid dust generation. Keep away from sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products under fire conditions: carbon oxides and other potentially toxic gases and fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled	Dust may cause respiratory irritation. Signs/symptoms may include shortness of breath, tightness of the chest, a sore throat and cough.
In case of skin contact	Causes skin irritation. Signs/symptoms may include dryness, localized redness, and itching.
In case of eye contact	Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If swallowed	May be harmful if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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Acute toxicity

No data available

Skin corrosion/

irritation Causes skin irritation

Serious eye damage/

irritation Causes serious eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

NTP: 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.

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

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

Based on available data, classification criteria are not met

SECTION 12: Ecological information

Toxicity

No data available on product.

Persistence and degradability

No data available on product.

Bioaccumulative potential

No data available on product.

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects

No data available.



SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute health hazard.

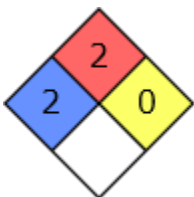
SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

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HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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Date of issue: November 28, 2022.

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