

1. Identification

1.1. Product identifier

Product Identity WESTCO AO 1024

Chemical Name 2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl] propionohydrazide

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use

Antioxidant

1.3. Details of the supplier of the safety data sheet

Company Western Reserve Chemicals

Supplier Address: 60 S. Seiberling Street
Akron, OH 44305

Telephone: 330-650-2244

Website: www.wrchem.com

Emergency Telephone No. Chemtrec: 1-800-424-9300

2. Hazard(s) identification

2.1. Classification of the substance or mixture according to 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Combustible dust

2.2. Label elements

Signal Word: Warning

Hazard Statement: May form combustible dust concentrations in air.

[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

[Disposal]:

No GHS disposal statements

3. Composition/information on ingredients

Ingredient/Chemical Designations	Weight %	GHS Classification
2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl] propionohydrazide CAS No.: 32687-78-8	100	Not Classified

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First aid measures

4.1. Description of first aid measures

- General** In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
- Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
- Eyes** Irrigate copiously with clean water for at least 10 minutes, holding the eyelids apart and seek medical attention.
- Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
- Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

- Overview** No specific symptom data available.
Treat symptomatically See section 2.2 for further details.
- Chronic effects** No available information

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full facepiece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13) The best way is clean with detergent. Do not use solvents. Do not let the leakage flow into the drain pipe or river. Please notify the local water company immediately if drainage pipes, sewers, streams or lakes are contaminated,. The Environmental Protection Agency should also be notified if the stream or lake is polluted.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage. Closed containers should only be opened in well-ventilated areas. Avoid dust formation. Use non-sparking tools. Dust in sufficient concentration can result in an explosive mixture in air.

Dust explosion class: KSt value = -

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, well-ventilated area.

7.3. Specific end use(s)

No available information

Section 8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
32687-78-8	2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl] propionohydrazide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

8.2. Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin Avoid skin contact. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

See section 2.2 for further details. - [Prevention]:

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	White to off-white Powder
Odor	Odorless
Odor threshold	No available information
pH	6 for a 1% suspension in water
Melting point / freezing point	221-232°C
Initial boiling point and boiling range	No available information
Flash Point	> 180°C
Evaporation rate (Ether = 1)	No available information
Flammability	No available information
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Vapor pressure (Pa)	8×10^{-13} mmhg (20°C)
Vapor Density	No available information
Specific Gravity	1.15 g/cm ³ (20°C)
Solubility in Water	< 1.0 m g/l at 20 °C
Partition coefficient n-octanol/water (Log Kow)	>6 (20 °C)
Auto-ignition temperature	380°C
Decomposition temperature	No available information
Viscosity (cSt)	No available information
Oxidising properties	No available information
Explosive properties	No available information

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

Dust exclusivity: Kst Values: Not Applicable

10.2. Chemical stability

Product is stable if stored and handled as indicated.

10.3. Possibility of hazardous reactions

No available information

10.4. Conditions to avoid

Avoid temperatures exceeding the flash point. Avoid dust formation. Avoid all sources of ignition: heat, sparks, open flame. Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents, strong bases, strong acids

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

11.1 Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Air LC50, mg/L/4hr
2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl] propionohydrazide - (32687-78-8)	> 5,000.00, hamster - Category: NA	No data available	No data available

Irritation/Corrosion

Skin: No adverse effect observed (not irritating)

Eyes: No adverse effect observed (not irritating)

Sensitization:

Skin: No adverse effect observed (not sensitizing)

Respiratory: No adverse effect observed (not sensitizing)

11.2 Chronic Toxicity/Effects

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Air LC50, mg/L/4hr
2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl] propionohydrazide - (0032687-78-8)	No data available	No data available	No data available

Genetic toxicity

No adverse effect observed (negative)

Carcinogenicity

No adverse effect observed (negative)

Possible routes of entry: No data available

Symptoms and effects, both acute and delayed: None Known

Section 12. Ecological information

12.1. Ecotoxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 aquatic invertebrates, mg/l	EC50 algae, mg/l
2',3-bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionyl]propionohydrazide - (32687-78-8)	Not Available	Not Available	Not Available

Chronic toxicity to fish

No data available

Chronic toxicity to aquatic invertebrates

No data available

Microorganisms/effect on activated

No data available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

No available information

12.4. Mobility in soil

No available information

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No available information

Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

	US DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No;		

14.6. Special precautions for user

No available information

Section 15. Regulatory information

US TSCA

Listed as Active on the TSCA Control Act (TSCA) Inventory.

US EPA Tier II Hazards

Fire: Yes, combustible dust

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): No

Delayed (Chronic): No

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

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