

MATERIAL SAFETY DATA SHEET

GOOD-RITE 3190X29 ANTIOXIDANT

ISSUED: ~~May 1, 1981~~

SECTION I

Manufacturer's Name
The BFGoodrich Company
Chemical Group

Telephone Number
~~313-771-1111~~

Address
6100 Oak Tree Blvd.
Cleveland, Ohio 44131

Chemical Family
Aromatic amines

Trademark
~~Good-Rite~~

Chemical Name and Synonyms
Alkylated diphenylamines
~~Good-Rite 3190X29~~

SECTION II - HAZARDOUS INGREDIENTS

	<u>Amount in Product</u>	<u>ACGIH TLV-TWA</u>	<u>OSHA PEL</u>
Residual diphenylamine	< 2%	10 mg/m ³	None established

Notes: o TLV-TWA: Threshold Limit Value - Time Weighted Average for concentration of the chemical substance in the ambient workplace air. American Conference of Governmental Industrial Hygienists, 6th Edition.

o OSHA PEL: OSHA Permissible Exposure Limit, 8-hour TWA.

o < means "less than"

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SECTION III - PHYSICAL DATA (Typical data, not specifications)

Boiling Point
Not applicable

Specific Gravity (H₂O=1)
0.97-1.01

Solubility in Water
Negligible

Percent Volatile by Weight
0.5% maximum

Appearance and Odor
Reddish brown liquid.
Slight amine odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point
410°F ~~220°F~~ CC

Lower explosion limit: Not known
Upper explosion limit: Not known

Extinguishing Media
Water. ABC dry powder. Protein type air foams. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.

Special Fire Fighting Procedure
Positive pressure self-contained breathing apparatus should be used. Personnel not having suitable respiratory protection should leave the area to prevent significant exposure to toxic combustion gases from any source.

Unusual Fire and Explosion Hazards
None known

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value
None established

Effects of Overexposure
None expected

Emergency and First Aid Procedure

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least five (5) minutes while holding eyelids open. See a physician.

IN CASE OF SKIN CONTACT: Wash the affected area with plenty of soap and water. See a physician.

IN CASE OF INGESTION: Induce vomiting by sticking finger down throat or by giving Syrup of Ipecac. See a physician.

IN CASE OF INHALATION: Not applicable.

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SECTION VI - REACTIVITY DATA

Stability

Stable

Hazardous Polymerization

Will not occur

Hazardous Decomposition Products

CO, CO₂, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons.

~~Reacts with strong oxidizing agents~~ (to avoid)

Reacts with strong oxidizing agents such as hydrogen peroxide, permanganates and perchlorates. Contact can result in intense heat, boiling, flame development, explosion or toxic gas generation depending on the amount and specific materials involved.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled

Dam-up spill. Absorb with an inert material such as sand, sweeping compound or a commercial absorbent. Place into container for disposal. Wash the spill area with soap and water. Do not flush chemical into public sewer or water system.

Waste Disposal Method

~~Reacts with strong oxidizing agents~~ in accordance with federal, state and local regulations. This product is not defined or designated as hazardous by current regulations of the Federal Resource Conservation and Recovery Act (RCRA). 40CFR261.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation

~~Reacts with strong oxidizing agents~~ exhaust ventilation should always be provided to draw fumes and vapors away from workers to prevent routine inhalation.

Ventilation should be adequate to maintain the ambient workplace atmosphere below the TLV listed in Section II.

Respiratory Protection

Wear a NIOSH/MSHA approved respirator whenever exposure to fumes or vapors exceed the TLV listed in Section II.

Protective Equipment

- Wear ~~respirator~~
- Wear ~~gloves~~ gloves.

SECTION IX - SPECIAL PRECAUTIONS

- Wash thoroughly after handling. Always wash-up before eating, smoking or using toilet facilities.
- Keep container closed.
- Loosen bung before heating drum.
- Store at a temperature above 72°F (22°C) to prevent crystallization.

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SECTION X - TRANSPORTATION

For transportation purposes, this product is not defined or designated as a hazardous material by the U.S. Department of Transportation under Title 49 of the Code of Federal Regulations, 1980 Edition.

USER'S RESPONSIBILITY

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be. BFGoodrich must rely on the user to utilize the information we have supplied to develop work practice guidelines and employee instructional programs for the individual operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

Good-rite™

CHEMICALS

MATERIAL SAFETY DATA SHEET

Good-rite® 3190 Antioxidant

April, 1980

SECTION I

Manufacturer's Name
The BFGoodrich Company
Chemical Group

Telephone Number
(216) 524-0200

Address
6100 Oak Tree Blvd.
Cleveland, Ohio 44131

Trademark
Good-rite® 3190 Antioxidant

Chemical Family
Aromatic amine

Chemical Name and Synonyms
Alkylated diphenylamines,
Antioxidant

SECTION II - HAZARDOUS INGREDIENTS

	<u>% in Product</u>
Residual Diphenylamine,	< 2%

<u>TLV-TWA*</u>
10 mg/m ³

* American Conference of Governmental Industrial Hygienists, 1979.

Note: < means "less than"

SECTION III - PHYSICAL DATA

Boiling Point
Not known

Specific Gravity (H₂O=1)
0.99

Solubility in Water
Negligible

Percent Volatile by Weight
0.5% maximum

Appearance and Odor
Reddish brown liquid.
Slight amine odor.

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B.F. Goodrich Chemical Company/6100 Oak Tree Blvd., Cleveland, Ohio 44131



The information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement, to practice any patented invention without permission of the patent owner.

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point

410°F (Cleveland Open Cup)

Extinguishing Media

Water spray. ABC dry powder and protein type air foams. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.

Special Fire Fighting Procedure

Positive pressure self-contained breathing apparatus should be used. Personnel not having suitable respiratory protection should leave the area to prevent significant exposure to toxic combustion gases.

Unusual Fire and Explosion Hazards

None known

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

None established

Effects of Overexposure

None expected

Emergency and First Aid Procedures

IN CASE OF EYE CONTACT: Flush eyes with plenty of water for at least 5 minutes. If irritation develops, see a physician.

IN CASE OF SKIN CONTACT: Wash area with plenty of soap and water. If irritation develops, see a physician.

IN CASE OF INGESTION: Induce vomiting by sticking finger down throat or by giving syrup of Ipecac. See a physician.

IN CASE OF INHALATION: Not applicable.

SECTION X - TRANSPORTATION INFORMATION

For transportation purposes, this product is not defined or designated as a hazardous material by the U. S. Department of Transportation under Title 49 of the Code of Federal Regulations, 1978 edition.

USER'S RESPONSIBILITY

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if or where precautions, in addition to those described herein, are required. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be. BFGoodrich must rely on the user to utilize the information we have supplied to develop work practice guidelines and employee instructional programs for the individual operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from use thereof.

SECTION VI - REACTIVITY DATA

Stability
Stable

Hazardous Polymerization
Will not occur

Hazardous Decomposition

Carbon monoxide, carbon dioxide, oxides of nitrogen and aromatic and aliphatic hydrocarbons

Incompatibility
None known

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Dam up the spill. Absorb spill with inert porous material. Shovel into containers for disposal. Wash the spill area with soap and water. Do not flush chemicals into a public sewer.

Waste Disposal Method

Sanitary landfill or incineration in accordance with federal, state and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation

Ventilation should be adequate to maintain ambient atmosphere below the 10 mg/m³ TLV for diphenylamine.

Protective Equipment

- Wear rubber gloves
- Wear chemical splash goggles

SECTION IV - SPECIAL PRECAUTIONS

- Wash hands thoroughly after handling containers. Always wash up before eating, smoking or using toilet facilities.
- Keep container tightly closed.
- Loosen bung before heating drum.
- Store at temperature above 72°F to prevent crystallation of product.

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