

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>	<u>TLV-TWA*</u>
Residual Diphenylamine,	< 2% 100%	10 mg/m ³

* American Conference of Governmental Industrial Hygienists, 1979.

add 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.

BFG11995

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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 VI - REACTIVITY DATA

Stability
Stable

Hazardous Polymerization
Will not occur

Hazardous Decomposition Products

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~~ flushing 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 IX - SPECIAL PRECAUTIONS

- Wash hands thoroughly after handling containers. Always wash up before eating, smoking or using toilet facilities.
- Keep container tightly closed.
- ~~Emptied container may contain residual vapors or liquid which may ignite or explode. Do not cut, puncture, or weld on or near the container. Until containers are thoroughly cleaned, keep tightly closed.~~
- Loosen bung before heating drum.
- Store at temperature above 72°F to prevent crystallation of product.

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.

ADDENDUMS

Toxicological Summary

Animal studies indicate that Good-rite® B190 poses no significant toxicity hazard in oral administration to rats (LD₅₀ 15,000 mg/kg).

Container Labeling

Containers furnished by BFGoodrich Chemical Group bear the following label:

7. no label for

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BFG11999