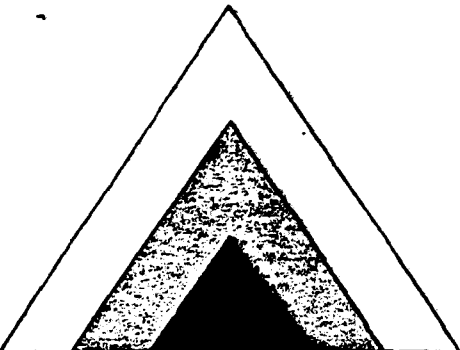




Good-rite®

CHEMICALS

MATERIAL SAFETY
DATA SHEET

GOOD-RITE® 3190X29
ANTIOXIDANT

ISSUED: November, 1985
DOC: 85180

SECTION I

Manufacturer's Name
The BFGoodrich Company
Polymer Chemicals Dept.

Telephone Number
(216) 447-6000

Transportation Emergency
Telephone
CHEMTREC: (800)424-9300

Address
6100 Oak Tree Blvd.
Cleveland, Ohio 44131

Chemical Family
Aromatic amines

Trademark
Good-rite® 3190X29 Antioxidant

Chemical Name/Synonyms
Alkylated diphenyl-
amines.
AgeRite® Stalite®

CAS Registry No.
68921-45-9

Formula
—

SECTION II - HAZARDOUS INGREDIENTS

	<u>CAS Number</u>	<u>Amount in Product*</u>	<u>ACGIH TLV-TWA</u>	<u>OSHA PEL</u>
Residual diphenylamine	122-39-4	< 2.0%	10 mg/m ³	NE

*Typical amount - not a specification.

- Notes: • TLV-TWA: Threshold Limit Value - Time Weighted Average for concentration of the chemical substance in the ambient workplace air for a normal 8-hour workday, 40-hour workweek, to which nearly all workers may be repeatedly exposed without adverse effect. American Conference of Governmental Industrial Hygienists, 1985/1986 Edition.
- OSHA PEL: OSHA Permissible Exposure Limit, 8-hour TWA. 29CFR1910.100
 - < means "less than"
 - NE means "none established"

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The BFGoodrich Company, Chemical Group/6100 Oak Tree Blvd. Cleveland, Ohio 44131

BFGoodrich
Chemical Group

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

<u>Boiling Point</u>	<u>Melt Point</u>	<u>Specific Gravity</u> (H ₂ O=1)
Not Determined (ND)	Not Applicable (NA)	0.97-1.01

<u>Solubility in Water</u>	<u>% Volatile by Weight</u>	<u>Vapor Density</u> (Air = 1)
Negligible	0.25% Max.	ND

Appearance and Odor
Reddish brown liquid. Slight amine odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

<u>Flash Point</u>	<u>Ignition Temperature</u>	<u>Flammable Limits in Air</u>
410°F (210°C), COC.	ND	(% by volume) Lower: NA Upper: NA

Extinguishing Media

Water. ABC dry chemical. 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 Firefighting Procedure

Wear positive pressure self-contained breathing apparatus (SCBA). Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source. In enclosed or poorly ventilated areas, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Unusual Fire and Explosion Hazards

None known.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value

None established

Effects of Overexposure

Diphenylamines may be irritating to mucous membranes. Heating may generate vapors which can irritate the eyes and respiratory passages. Systemic poisoning may occur from inhalation or skin contact.

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. 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.

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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.

Incompatibility (materials to avoid)

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

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled

Contain spill. Recover as much as possible for reuse. Absorb remainder with an inert material. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water. Do not flush chemical into public sewer or water system.

Waste Disposal Method

Dispose of waste in accordance with federal, state and local regulations. For waste disposal purposes, this product is not defined or designated as hazardous by current provisions of the Federal Resource Conservation and Recovery Act (RCRA). 40CFR261.

Liquid or dry material may be disposed of by incineration. Most states prohibit disposal of liquids in landfills. Small quantities of liquid may be mixed with a drying or bulking agent so that the resultant mixture may be disposed of in a landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation

Effective 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 limits listed in Section II.

Respiratory Protection

Wear a respirator approved by NIOSH/MSHA whenever exposure to mist, fumes or vapors exceed the limits listed in Section II. Use in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Protective Equipment

- Wear monogoggles
- Wear protective gloves.

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SECTION IX - SPECIAL PRECAUTIONS

- Use under well-ventilated conditions.
- For personal hygiene protection, we recommend that employees wash thoroughly after handling product. Always wash-up before eating, smoking or using toilet facilities.
- Avoid prolonged or repeated skin and eye contact.
- Avoid breathing vapors or mist.
- Keep container closed when not in use and upright to prevent leakage.
- Loosen bung before heating drum.
- Store at a temperature above 72°F (22°C) or more to prevent crystallization.

SECTION X - TRANSPORTATION

For domestic 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, 1983 Edition.

- DOT Proper Shipping Name: Not applicable
- DOT Hazard Class: Not applicable
- DOT Label: Not applicable
- UN/NA Hazard No.: Not applicable

SECTION XI - HAZARD CODES

NFPA 704 (*)

Health: 2
Flammability: 1
Reactivity: 0
Special: —

HMIS (**)

Health: 1
Flammability: 1
Reactivity: 0
Personal Protection: Splash goggles, gloves

Hazard Code Key: 0 = Insignificant; 1 = Slight; 2 = Moderate;
3 = High; 4 = Extreme.

(*) National Fire Protection Association. NFPA rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

(**) Hazardous Materials Identification System, National Paint and Coatings Association. HMIS rating applies to product "as packaged" (i.e., ambient temperature).

USER'S RESPONSIBILITY

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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