NIOSH

Preventing Health Hazards from Exposure to Benzidine Congener Dyes

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

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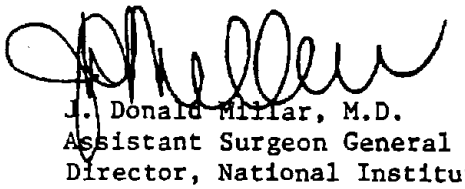
PREFACE

Exposures to benzidine congener dyes in the workplace may increase the risk of cancer in the exposed workers. In particular, dyes based on the chemical benzidine may be carcinogenic; dyes based on o-tolidine or o-dianisidine may also pose a carcinogenic risk to workers. Cancer could be caused by the dye itself, by leftover parent chemicals and impurities in the dye after its manufacture, or by chemicals resulting from breakdown of the dye in the body. The risk of cancer extends beyond the manufacture of benzidine congener dye where there is potential exposure to benzidine (a known carcinogen), o-tolidine, or o-dianisidine (suspected carcinogens). Workers who use the dye or the dyed product may also be at risk and should be well protected.

The National Institute for Occupational Safety and Health (NIOSH) has developed this publication to alert supervisors, workers, safety committees, and safety directors to these hazards as well as to suggest the necessary protective measures. To aid in determining whether or not benzidine congener dyes are being used in a particular setting, Appendix A lists many of their tradenames and synonyms, grouped by their parent chemical.



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BACKGROUND

In this publication, the term benzidine congener dyes (BCDs) refers to commercial preparations of those dyes produced from either benzidine, ortho-tolidine, or ortho-dianisidine. The term "congener" (Latin for "same family") refers to their similarities in chemical structure.

Like many other technical grade dye formulations, each commercial benzidine congener dye may contain several chemicals. At least four of these chemicals--leftover parent compound (the so-called "chemical intermediate"), certain impurities, breakdown products, and the dye itself--may pose serious health hazards to workers.

Approximately 82 benzidine congener dyes are now or have been widely used in the U.S. They are marketed under several hundred tradenames (many are listed in Appendix A of this publication). Although each of these 82 dyes has not been specifically tested for health effects, they have several important similarities. These similarities have led scientists at the National Institute for Occupational Safety and Health (NIOSH) to conclude, after extensive review of the data, that exposure to any of them in the workplace may increase the risk of cancer to exposed workers.

The conclusions reached by these scientists were based on the following findings:

1. Those dyes tested showed cancer-causing potential.
2. Leftover parent chemicals in commercial preparations of these dyes are either known (benzidine) or suspected (o-tolidine, o-dianisidine) carcinogens.
3. Benzidine congener dye products are not pure, and may contain actual or potential carcinogens other than the dyes and their parent compounds. Impurities may have been present at the time of manufacture, or could have been formed as a result of dye breakdown during storage, especially if the dye had been exposed to heat.
4. Those BCDs tested were converted to the parent chemical in the bodies of several species of test animals. Available evidence supports biotransformation in humans of benzidine-based dyes to the parent compound, benzidine. Although less conclusive at this time, there is also evidence that humans metabolize o-tolidine-based dyes to their parent chemicals.
5. Members of this family of dyes, the benzidine congeners, have closely related chemical structures.

Earlier, when only the parent compound or other chemical precursors were thought to be hazardous, attention was focused on dye manufacturing workers. However, as a result of tests performed by the National Cancer Institute, it is now believed that the dyes themselves are potential carcinogens.

Of the entire range of chemicals tested to date in the National Cancer Institute's bioassay program, three benzidine-based dyes demonstrated the shortest "time-to-tumor" interval. These results suggested that the benzidine-based dyes themselves might be very potent carcinogens. Because the dyes themselves--not simply leftover intermediates, breakdown products, or contaminants--may be carcinogenic, it is not enough to protect against exposure to the dyes only during dye manufacture. Workers who apply the dye and workers who process the dye are also exposed to a health hazard and must also be well protected.

Dye house workers are probably the most significantly exposed workers. Much less is known about the potential dye exposure of workers processing BCD-dyed fabrics, leather, and paper after these materials leave the dyeing plant. Generation of particulates from the BCD-dyed materials might occur, for example, in cutting, sewing, knitting, weaving, and finishing operations.

Although dye exposure in these processing operations is not well characterized, we do know that dyed particulates are generated when fabrics are prepared from dyed fibers, and that dyed particulates are released during cutting and sewing operations.

Because the possibility of dye exposure during processing activities exists, but exposure data are at present not available, a determination of whether such workers face any health hazard from working with BCD-dyed materials must await further investigation.

In summary, several benzidine congener dyestuff constituents--the dye itself, leftover parent compound, breakdown products, and certain impurities--may present serious health hazards.

For the reasons discussed above, NIOSH recommends that worker exposure to benzidine-based dyes be reduced to the lowest level feasible, preferably by substituting safer dyes for benzidine-based dyes.

The available data on dyes based on o-tolidine and o-dianisidine, while less extensive and definitive than those for benzidine-based dyes, suggest that these dyes, and certain dye contaminants (including breakdown products occurring during storage or heating), may also present a cancer risk to workers. Exposure to these two additional classes of dyes should therefore be minimized. NIOSH recommends, as a prudent public health measure, that substitution of less toxic dyes be used as a control measure wherever possible.

QUESTIONS OFTEN ASKED ABOUT BENZIDINE CONGENER DYES

SOURCES OF EXPOSURE/ WHO IS EXPOSED

Q: What are the most common industrial sources of exposure to benzidine congener dyes (BCDs)?

A: Exposure to BCDs is especially likely during various manufacturing operations:

Synthesis

Processing (especially spray drying, presscake drying, milling, pulverizing, and blending)
Packaging
Transportation
Maintenance and cleanup.

Exposure can also occur during kinds of dyeing procedures:

Textile dyeing
Pulp and paper dyeing
Leather and fur dyeing.

Examples of these exposure situations include dye weighing and mixing; transfer to dyeing vats or paper beaters; leather spraying; maintenance and cleanup work; handling of dyed fabric, paper, fur, or leather; stripping of imperfectly dyed materials; and waste treatment and disposal operations.

Other applications in which BCD exposure may take place include the manufacture of:

Water-based inks
Wood stains
Plastics
Pigments
Hair dyes
Typewriter ribbons
Printed textiles
Soaps
Consumer dyeing products
Wood flours used as resin fillers
Biological stains and indicators.

The use of BCDs may have been discontinued in some of the above applications.

Still other potential exposure situations occur outside of manufacturing and dyeing settings where particulates may be generated.

This work involves dyed textiles, leather, or paper in the following processing operations:

Finishing
Cutting
Sewing
Knitting or weaving with dyed fibers.

It is not known whether workers who are exposed to the dusts of BCD-dyed textiles or leather, such as in cutting or sewing operations, face risks similar to BCD workers in manufacturing and applications industries. The measurements needed to determine the nature and level of exposure to such dyed dusts have not yet been made.

Q: Are only production workers exposed?

A: No. Production workers are often the most routinely exposed workers; but maintenance and cleanup crews can also be significantly exposed. Such workers risk exposure when local exhaust ductwork requires cleaning, spills must be cleaned up, or process equipment must be disassembled. These individuals are of particular concern because some of the most effective exposure controls available to production staff, such as process enclosure and local exhaust ventilation, are often the least likely to be available to maintenance workers.

Q: How does a person find out whether benzidine congener dyes are

being used (or have been used) in a particular workplace?

A: Over 2,900 BCD tradenames are listed alphabetically in the back of this publication by major dye group (benzidine-based, o-tolidine-based, and o-dianisidine-based). Generic (common) names, such as Direct Black 38, are included where known as an aid to dye identification. Posting this list at those work stations where exposure occurs would assist workers in determining whether they are being or have been exposed to BCDs.

Q: Where may substitutes for benzidine congener dyes be purchased?

A: Many companies can supply substitute dyes upon request. Substitutes may also be found by referring to the "Buyers Guide" published every July by the American Association of Textile Colorists and Chemists. The "Buyers Guide" can be ordered from:

The American Association of Textile Colorists and Chemists
Box 12215
Research Triangle Park
North Carolina 27709

REDUCTION OF EXPOSURE

Q: How do dyes enter the body?

A: There are three ways that dyes can enter the body. Dyes can be inhaled, swallowed, or contact the skin or eyes.

Breathing dye dusts and mists allows smaller particles to enter the lungs, where they may become trapped, be retained, or be ultimately degraded. Larger particles are either trapped by the mucous lining of the respiratory passages or are exhaled; those that are trapped are coughed up and may be swallowed. Eating, chewing, or smoking items contaminated with dye dusts, liquids, or pastes also allows dye to enter the body. Dye that is thus swallowed can be absorbed into the blood from the intestines, and can be transformed to the intermediate (parent compound) by bacteria living in the gut. Finally, some dye components may enter the body by absorption through healthy or damaged skin, or through contact with the eyes.

Q: If the air doesn't look dusty, is it safe to breathe?

A: Not necessarily. The particles most likely to lodge in the lungs are too small to be seen by the naked eye.

Such particles are extremely light, and tend to float in the air before settling slowly to the ground or other surfaces. Just because the visible part of a dust cloud has settled doesn't mean the air is safe to breathe.

The only sure way to find out whether the air in the worker's breathing zone is safe is to collect a sample of it with a personal sampler. The sample should then be analyzed by a certified industrial hygiene laboratory. Under the current medical and exposure records access standard, workers and their representatives have a legal right to see the results of workplace air sampling tests performed by or for their employers.

Q: How can the risks to workers handling BCDs be most effectively minimized?

A: Replacement of BCDs with known safe dyes is the most effective means of reducing exposure. When substitution isn't a viable option, however, BCD exposure should be reduced to the lowest feasible level.

Although the amount of exposure that the body can safely tolerate is unknown, it is generally agreed that the smaller the exposure, the less the chance for developing an exposure-related disease. However, it is also possible that the chance of the disease developing will remain the same, but that at lower exposure levels it will take more time for the disease to develop.

One very effective method for reducing inhalation exposure involves changing the form in which the dye is handled. For example, dyes can be supplied in paste, liquid, or pelletized forms, or in soluble bags. Note that handling dyes in these forms does not necessarily reduce the need for effective protection against skin exposure (discussed below).

Inhalation (as well as skin exposure) can be further reduced, often substantially, by preventing dyes from contaminating workplace air and work surfaces (floors, benches, machinery, etc.). A particularly effective control method involves containing those operations where dye is transferred, weighed, mixed, metered, sampled, packaged, or otherwise handled. The technical term for this technique is process enclosure.

For example, enclosures (transparent types if visibility is important) may be attached to presscake grinders and to milling, bagging and drumming machines to contain dye particles. Local exhaust ventilation is frequently applied to such enclosures to make sure that any openings permitting leakage will cause air to flow into the enclosed area rather than out of it. Another example of process enclosure involves the use of liquid metering devices or gravity feeds for charging operations. By eliminating pouring and measuring steps, these devices can significantly reduce exposure due to spills.

Where process enclosure is not practical, concentrations of airborne dyes can still be substantially reduced by local exhaust devices, such as hoods and downdraft or crossdraft tables. When properly designed, fabricated, and maintained, these devices capture the dye particles close to the point of release and prevent them from entering the worker's breathing zone. However, when local exhaust is used, adequate filters or traps should be provided in the exhaust air line before the air is released inside or outside the plant. It is also important that such filtration apparatus be designed to allow safe maintenance, and that the exhaust system components are kept well maintained.

Engineering controls, such as process enclosure and local exhaust ventilation, can also substantially reduce dye exposure in dye applying operations, as well as in processing industry (post-application) operations where exposure is documented.

NIOSH further recommends that BCDs only be manufactured and used in

restricted areas of the workplace. Such areas need to be clearly posted with appropriate warning signs, and access to them should be limited to workers informed of both the potential hazards and proper control measures.

For additional information on restricted areas and other approaches to handling actual and potential carcinogens, see the NIOSH pamphlet "A Management Guide to Carcinogens--Regulation and Control," DHEW (NIOSH) Publication No. 77-205.

PERSONAL PROTECTIVE EQUIPMENT

Q: How can workers be protected during emergencies, maintenance work, equipment failures, and cleaning operations against exposure to hazardous dyes that escape and become airborne despite efforts to contain, capture, or remove them?

A: If hazardous dyes escape into workplace air, then (1) workers must be individually protected against breathing them or coming into skin contact with them, and (2) settled dye particles must be removed and immobilized to prevent them from becoming airborne again.

Inhalation of hazardous dyes that escape capture or containment efforts can be minimized by use of a positive-pressure respirator (air line or battery powered). These provide air to the facepiece under slight pressure. The pressure (1) helps prevent airborne dye from leaking into the mask during inhalation, and (2) reduces the burden of wearing a respirator by diminishing breathing effort.

Persons wearing respirators other than supplied-air types typically breathe with greater effort and sweat more, and may be inadequately protected due to a less than perfect seal. A snug fit is essential where the edges contact the face.

For situations where an air line respirator would not allow sufficient mobility, a half-mask battery powered air purifying respirator with high efficiency filters is recommended. Powered air purifying respirators are inferior, however, to air line respirators for use in areas with substantial dust levels, or in confined spaces. Under emergency conditions, only respirators with a self-contained air supply are suitable.

Whenever respirators are used, it is essential that fitting, maintenance, cleaning, and storage be properly and consistently performed. For general information on selecting, fitting, cleaning, and maintaining respirators, see the NIOSH pamphlets entitled, "Respiratory Protection--An Employer's Manual," DHHS (NIOSH) Publication No. 78-193A, GPO #017-033-00326-2 ($4.50), and "Respiratory Protection--A Guide for the Employee," DHHS (NIOSH) Publication No. 78-193B, GPO #017-033-00327-1 ($3.25). (Ordering information appears on the back cover of this publication.)

Note: Since the particles that can reach the lungs are light enough to stay suspended in workplace air long after heavier particles have settled, airflow patterns may carry them to work positions far from their source, where workers may not be wearing respirators. Because these respirable particles are

small enough to be invisible, persons at nearby work stations may be unaware of what they may be breathing. Airflow patterns can even move these microscopic particles to more remote areas, such as lunch rooms, management offices, and other areas not typically thought of as hazardous.

This illustrates one more reason why engineering controls are strongly preferred over respirator use for protection against BCD hazards; all employees can be protected, not just the workers known to be exposed.

Settled dye particles must be removed without scattering them back into the air. This means no blow-downs with compressed air, and no dry sweeping. The only safe methods for cleaning settled dye from equipment, ductwork, ledges, floors, etc. are: (1) vacuuming (using high-efficiency filter vacuums, such as those approved for handling asbestos), and (2) wet methods (such as first spraying contaminated surfaces with a fine water mist and then hosing them down with additional water).

Vacuuming is also recommended for the initial removal of dust from heavily contaminated clothing, both immediately after substantial contamination and routinely before changing clothes.

Q: What type of personal protective equipment should be worn by workers who cannot otherwise avoid skin contact with a benzidine congener dye?

A: Skin contact is typically minimized by wearing gloves and protective coveralls.

Gloves are especially important, since they prevent skin contact with parent compounds and other contaminants. The gloves must be impermeable to the extent practical. They must be washed before being removed, and checked for pinholes, tears, and similar defects before reuse. Because wearing gloves contaminated on the inside exposes the skin to the contaminant, gloves with dye residue inside must be replaced or thoroughly cleaned. Longsleeved style gloves are recommended to ensure that wrists and forearms aren't contaminated by material entering the cuffs or getting on exposed arms.

Full-body coveralls are also recommended for protecting skin from contact with hazardous dyes. Coveralls should be changed at least daily, and sooner if they become contaminated because of leaks, spills, discharges, etc. Use of disposable outer garments is strongly recommended for two reasons. First, complete removal of BCDs from contaminated garments can be difficult. Reducing agents, such as those commonly used in dye stripping processes, release the toxic parent compound from the dye, which may become entrapped on the garments being laundered.

Second, if contaminated work clothes are worn home, or are taken home for laundering, family members may be inadvertently exposed.

Note that use of bleach, organic solvents, or other strong chemicals

to clean dye-stained skin impairs the skin's natural protection against the environment. Once impaired, the skin more readily absorbs many hazardous chemicals and becomes more susceptible to infection and dermatitis. The use of any cleaner that contains a strong reducing agent, such as sodium hydrosulfite, is especially dangerous since this chemical transforms benzidine congener dyes back to their toxic parent compounds. Showers should be available where dyestuff exposure can occur, and workers should be required to shower whenever significantly contaminated.

Q: How do workers get the required gloves, coveralls, and (where appropriate) respirator?

A: Under Federal law employers are responsible for protecting workers against workplace hazards, and are required to provide all necessary protective equipment. This equipment must be effective, properly maintained, and readily available to workers.

If reusable protective garments are used, the washing of coveralls, gloves, etc. should be performed or arranged for by the employer, since laundering of BCD-contaminated garments necessitates special handling. Reducing agents should not be used to remove BCD stains, due to conversion of these dyes back to the parent compounds, and the possibility that these would be entrapped on the seemingly clean garment (or on other garments in the batch being washed).

The recommended alternative to laundering is to provide a fresh disposable outer garment daily, and to require it to be changed during the workday if it becomes contaminated. This avoids worker exposure during laundering, and the possibility of residual contaminants being present after washing.

Q: Is all footwear about equally protective against dye exposure?

A: No. Canvas sneakers and other fabric footwear as well as leather shoes or boots will absorb spilled dye, especially when the dye is in liquid form or the footwear is wet. Dye retained on absorbent footwear may later contact the skin; the moist environment in footwear is conducive to skin absorption of various dye components.

For these reasons, washable, nonabsorbent footwear is recommended. Such footwear should be cleaned after each shift and stored in a place free from contamination. An alternative to using nonabsorbent footwear is to use disposable shoe covers on existing footwear.

Q: Wearing full-body coveralls, nonabsorbent footwear, nonabsorbent long-sleeved gloves, and (if appropriate) a respirator could make working in hot work areas extremely uncomfortable. Are there alternatives?

A: Yes. It is widely recognized that protecting workers individually with personal protective equipment can impose considerable stress on them. In certain environments, such as high heat plus high humidity, this burden may be serious enough to increase the risk of accidental injuries, due to lowered alertness or impaired

judgment. It may also increase the likelihood of heat illnesses.

In order to minimize reliance on personal protective equipment (and for reasons discussed earlier), NIOSH recommends that hazards be controlled at the source. Because exposure is completely eliminated, substitution of a nonhazardous dye can be the simplest and most effective alternative. Where dye substitutes that are known to be safe are not available, process enclosure with local exhaust ventilation to keep the enclosure under negative pressure may provide adequate control.

Where work is performed under hot and/or humid conditions, and use of personal protective equipment is unavoidable, the environment of the work area involved should be made as favorable as possible. For example, ventilation can be increased to remove excess heat or humidity, or air conditioning can be installed. Frequent rest breaks may provide additional protection against severe discomfort.

Obviously many work areas could only be air conditioned with great difficulty; this is yet another reason why engineering controls and other measures that control contaminants at the source have been favored over use of respirators, protective garments, and other personal protective exposure controls.

HEALTH EFFECTS/MEDICAL AND ENVIRONMENTAL EVALUATION

Q: What kind of cancer is known to be a problem for workers who are (or have been) exposed to BCDs?

A: Although other types are possible, bladder cancer is found at an unexpectedly high rate among dye, textile, and leather workers exposed to benzidine-based dyes. Cancers are not now specifically associated with exposure to o-tolidine-based or o-dianisidine-based dyes; however, animal studies suggest that these are potential human carcinogens.

Q: When bladder cancer was detected in dye workers who manufactured benzidine-based dyes, how long did it take for the tumors to develop?

A: Cases showed a range of 1-40 years between first exposure and the diagnosis of cancer in exposed workers. It is important to note that the minimum amount or length of exposure required to initiate tumor development is not known.

Q: Should workers who are exposed now, or who may have been exposed to these dyes in the past, be medically examined?

A: Yes. The employer should provide a yearly medical examination for each worker potentially exposed to benzidine congener dyes. Retired workers who have worked with or near these dyes, and former dye workers now employed in other industries, are advised to arrange for a medical examination on their own.

Blood in the urine can be an indicator of bladder impairment due to a malignancy. Typically the blood appears without accompanying pain. Blood in the urine can also be caused by a urinary tract infection, by bladder stones, or by a benign

tumor. In all four cases, the blood may disappear from the urine overnight. However, where a malignancy is the cause, the blood returns, sometimes weeks or months later.

Q: What tests or procedures do physicians perform in evaluating patients who are exposed to benzidine congener dyes?

A: Although there are certain factors (such as type and amount of exposure) that will influence a physician's judgment, the physician typically:

1. Obtains an occupational and an exposure history.

2. Obtains a medical history with special emphasis on complaints associated with the urinary tract and liver.

3. Performs a physical examination emphasizing the kidney and liver.

4. Orders lab tests for liver and kidney function, plus a urinalysis that includes microscopic examination of sediment.

5. Advises the individual of the results of the medical examination and lab tests.

In addition, the National Cancer Institute recommends that a cytologic examination of the urine be performed periodically for workers exposed to hazardous dyes (see DHEW (NIH) Publication No. 78-722).

Q: Is free assistance in evaluating working conditions and work practices available?

A: Yes. Employers or employees can ask NIOSH to perform a Health Hazard Evaluation (see back pages of this publication for NIOSH office addresses and phone numbers). These free surveys typically involve on-site sampling, and may include medical evaluations. Results and recommendations are made available to both the employer and employee.

To preserve confidentiality, the identity of specific workers examined does not appear in any medical findings included in the report. Specific findings, however, are provided directly to each individual examined. (Note that medical examinations, if performed, are always voluntary.)

Employers can also ask for technical assistance in hazard recognition and control from state consultation programs funded by the Occupational Safety and Health Administration (OSHA). The phone number of the nearest OSHA office can be found in the white pages of the phone directory under "United States Government, Department of Labor."

Another source of assistance is the OSHA compliance inspection. OSHA inspections may result in orders to correct workplace hazards. These orders can be enforced.

APPENDIX A

BCD TRADENAMES AND GENERIC NAMES, BY PARENT CHEMICAL

Distributed or formerly distributed in the United States as of August 1981

Many different tradenames and generic names are used for benzidine congener dyes. As an aid for identification, Appendix A lists tradenames and generic names used for BCDs. Dye names are listed alphabetically and grouped by their parent chemical (benzidine, o-tolidine, or o-dianisidine). All three lists should be checked for the dye name in question. Both imported and domestically produced dyes are listed.

Appendix A also lists many tradename dyestuffs that are no longer produced. These are included to (1) help workers find out whether they had been exposed to BCDs in the past, and (2) permit recognition of older inventories of discontinued dyes that could still be used.

Colour Index (C.I.) numbers and generic names are included for those dyes identified by the Toxicology Information Response Center, Oak Ridge National Laboratory as being based on benzidine, o-tolidine, or o-dianisidine. These lists are not, however, exhaustive inventories of every BCD tradename product. To ascertain whether a dye not listed is a benzidine congener dye, consult the Colour Index or contact NIOSH.

Metallized o-dianisidine-based dyes are noted by a "pound sign" (#). These dyes, according to industry sources, may be less hazardous to handle than other benzidine congener dyes. Since NIOSH does not now have enough information to determine whether the commercial grade metallized dyes present less of a health hazard, the "pound sign" (#) should not be construed as NIOSH support for any safety claims.

BENZIDINE-BASED DYES

ACALIN RED S 2B
ACID ANTHRACENE RED G
ACID ANTHRACENE RED G CONC.
ACID ANTHRACENE RED GA
ACID ANTHRACENE RED GA-CF
ACID ANTHRACENE RED 3B
ACID ANTHRACENE RED 3B EXTRA
ACID ANTHRACENE RED 3BM
ACID ANTHRACENE YELLOW GR
ACID FAST YELLOW MR
ACID LEATHER RED GR
ACID LEATHER RED MR
ACID LEATHER SCARLET G
ACID LEATHER SCARLET 2B
ACID LEATHER YELLOW CRS
ACID MILLING RED G
ACID MILLING RED R
ACID MILLING YELLOW M
ACID ORANGE 63
ACID RED G
ACID RED PG
*ACID RED 85
ACID YELLOW K
ACID YELLOW 42
ACIDERM YELLOW ER
ACIDINE SCARLET GD
ACIDOL YELLOW GRX
ACILAN RED 3BS
AHCO DIRECT BLACK GX
AHCO DIRECT BLACK RW
AIREDALE BLACK BHD
AIREDALE BLACK ED
AIREDALE BLACK RWD
AIREDALE BLUE 2BD
AIREDALE BROWN BSD
AIREDALE BROWN GWD
AIREDALE BROWN MD
AIREDALE GREEN BD
AIREDALE GREEN BWD
AIREDALE RED FD
AIREDALE RED PGM
AIREDALE SCARLET BD
AIREDALE SCARLET GM
AIREDALE SCARLET 5BM
AIREDALE VIOLET ND
AIREDALE YELLOW 3GM
AIZEN DIRECT BLACK BH
AIZEN DIRECT BLACK BH EXTRA
AIZEN DIRECT BLUE 2BH
AIZEN DIRECT BORDEAUX GH
AIZEN DIRECT BROWN MH
AIZEN DIRECT DARK GREEN BH
AIZEN DIRECT DEEP BLACK EH
AIZEN DIRECT DEEP BLACK GH
AIZEN DIRECT DEEP BLACK RH
AIZEN DIRECT FAST RED FH
AIZEN DIRECT GREEN BH
AIZEN PRIMULA BROWN BRLH
AIZEN PRIMULA BROWN PLH
ALIZARINE CHROME RED G
ALPHANOL FAST ORANGE R
ALPHANOL FAST RED G
ALPHANOL FAST YELLOW F
ALPHANOL FAST YELLOW H5G
ALTAZINE BLACK BH
ALTOCHROME MILLING SCARLET G
ALTOCHROME SCARLET G
AIZEN DIRECT VIOLET LNH
AMACID FAST YELLOW RS
AMACID FAST YELLOW RS EX.
AMACID MILLING ORANGE PR
AMACID MILLING RED PGS
AMACID MILLING SCARLET G
AMACID MILLING SCARLET 3R
AMACID MILLING SCARLET 3R CONC.
AMACID MILLING YELLOW 5G
AMANIL BLACK GL
AMANIL BLACK WD
AMANIL BLUE 2BX
AMANIL BORDEAUX B
AMANIL BROWN D3G
AMANIL BROWN MR
AMANIL CATECHINE 3G
AMANIL DEVELOPED BLACK BHSW
AMANIL FAST BROWN BRL
AMANIL FAST BROWN HP
AMANIL FAST BROWN RLH
AMANIL FAST ORANGE GLZ
AMANIL FAST ORANGE PRZ
AMANIL FAST RED FS
AMANIL FAST SCARLET B
AMANIL FAST VIOLET N
AMANIL GARNET H
AMANIL GARNET RB
AMANIL GREEN B
AMANIL GREEN GX

*In current production, 1981.

BENZIDINE-BASED DYES
(continued)

AMANIL GREEN LT
AMANIL NAVY BLUE BHSW
AMANIL ORANGE Y
AMANIL RAYON BROWN B
AMANIL RUBINE R
AMANIL RUBINE R,Y
AMANIL RUBINE Y
AMANIL SUPRA BROWN LBL
AMIDINE BLACK RBN
AMIDINE BLUE 2B CONC.
AMIDINE BLUE 2BNB CONC.
AMIDINE BROWN DMB
AMIDINE BROWN M CONC
AMIDINE BROWN 3GC 250%
AMIDINE DARK GREEN N
AMIDINE FAST RED F NEW
AMIDINE FAST SCARLET BN CONC.
AMIDINE GREEN GX
AMIDINE GREEN M SPECIAL
AMIDINE GREEN 2BN
AMIDINE VIOLET N
AMINDINE VIOLET N
ANTHRA MILLING RED G
ANTHRA MILLING RED 3B
ANTHRA RED G
ANTHRA RED 3B
ANTRACROMO YELLOW
APOCID MILLING RED G
APOMINE BLACK GX
APOMINE GREEN B
APOMINE GREEN GX
ATLANTIC BLACK BD
ATLANTIC BLACK C
ATLANTIC BLACK E
ATLANTIC BLACK EA
ATLANTIC BLACK GAC
ATLANTIC BLACK GG
ATLANTIC BLACK GXCW
ATLANTIC BLACK GXOO
ATLANTIC BLACK RW
ATLANTIC BLACK SD
ATLANTIC BLUE 2B
ATLANTIC BORDEAUX B
ATLANTIC BROWN BCW
ATLANTIC BROWN BP
ATLANTIC BROWN M
ATLANTIC BROWN 3GN
ATLANTIC CONGO BROWN G
ATLANTIC CONGO RED
ATLANTIC DARK GREEN
ATLANTIC DARK GREEN B
ATLANTIC DARK GREEN BG
ATLANTIC FAST BROWN BRL
ATLANTIC FAST ORANGE R
ATLANTIC FAST ORANGE 3G
ATLANTIC FAST RED F
ATLANTIC FAST YELLOW PRA
ATLANTIC GARNET B
ATLANTIC GREEN WT
ATLANTIC GREEN 2B
ATLANTIC RESIN FAST BROWN BRL
ATLANTIC SCARLET B
ATLANTIC VIOLET N
ATUL ACID MILLING RED G
ATUL CONGO RED
ATUL DEVELOPED BLACK BT
ATUL DIRECT BLACK E
ATUL DIRECT BLUE 2B
ATUL DIRECT BORDEAUX BR
ATUL DIRECT BROWN BN
ATUL DIRECT BROWN MR
ATUL DIRECT BROWN MY
ATUL DIRECT DARK GREEN P
ATUL DIRECT FAST ORANGE G
ATUL DIRECT FAST ORANGE R
ATUL DIRECT GARNET B
ATUL DIRECT GARNET B,BY
ATUL DIRECT GARNET BY
ATUL DIRECT GREEN B
ATUL DIRECT GREEN G
ATUL DIRECT GREEN P
ATUL DIRECT VIOLET N
AZANOL MILLING SCARLET G
AZINE BROWN M
AZINE BROWN 2RG
AZINE BROWN 3G
AZINE CORINTH G
AZINE DARK GREEN BH/C
AZINE DEEP BLACK EW
AZINE DEEP BLACK 3RL
AZINE DIAZO BLACK BHK
AZINE FAST RED FC
AZINE GREEN BX
AZINE LIGHT BROWN GR
AZINE SCARLET BX
AZO MILLING RED G

BENZIDINE-BASED DYES
(continued)

AZO MILLING RED 3B
AZO MILLING YELLOW 3G
AZOCARD BLACK EW
AZOCARD BLACK RW
AZOCARD BLUE BH
AZOCARD BLUE 2B
AZOCARD BROWN M
AZOCARD BROWN 3G
AZOCARD BROWN 3GR
AZOCARD BROWN 5G
AZOCARD DARK GREEN B
AZOCARD FAST RED F
AZOCARD GREEN B
AZOCARD GREEN G
AZOCARD RED CONGO
AZOCARD VIOLET N
AZOGEN BLACK BH
AZOMINE BLACK BH
AZOMINE BLACK EWO
AZOMINE BLUE 2B
AZOMINE BROWN M
AZOMINE GREEN B
BAYGENAL BROWN CTR
BAYGENAL RED CG
BELACHROME FAST YELLOW R
BELACID MILLING RED G
BELACID MILLING SCARLET 3R
BELACID MILLING YELLOW R
BELACID MILLING YELLOW 5G
BELAMINE BLACK GX
BELAMINE BLUE 2B
BELAMINE BORDEAUX B
BELAMINE DIAZO BLACK BH
BELAMINE FAST BROWN BP
BELAMINE FAST BROWN BRLL
BELAMINE FAST BROWN M
BELAMINE FAST ORANGE GL
BELAMINE FAST RED FC
BELAMINE FAST SCARLET B
BELAMINE GREEN BX
BENCIDAL BLACK E
BENCIDAL BLACK RW
BENCIDAL BLUE 2B
BENCIDAL BROWN 3G
BENCIDAL DARK GREEN B
BENCIDAL FAST BROWN M
BENCIDAL FAST RED F
BENCIDAL FAST VIOLET N
BENCIDAL GREEN B
BENCIDAL NAVY BLUE BH
BENCIDAL ORANGE R
BENZAMIN BROWN RT
BENZANOL FAST ORANGE GL
BENZANIL BLACK BH
BENZANIL BLACK E
BENZANIL BLACK RW
BENZANIL BLUE 2B
BENZANIL BORDEAUX B
BENZANIL BROWN BS
BENZANIL BROWN GW
BENZANIL BROWN M
BENZANIL DARK GREEN BW
BENZANIL FAST RED F
BENZANIL GREEN B
BENZANIL GREEN BN
BENZANIL SCARLET B
BENZANIL SUPRA BROWN BRLL
BENZANIL SUPRA BROWN BRLN
BENZANIL VIOLET N
BENZANOL BRILLIANT BORDEAUX BN
BENZANOL BRILLIANT SCARLET B
BENZANOL BROWN CG
BENZANOL BROWN GSR
BENZANOL BROWN M
BENZANOL FAST ORANGE RL
BENZANOL FAST RED F
BENZANOL GARNET
BENZO BLACK BLUE BH
BENZO BLACK BLUE FBH
BENZO BLUE BBA-CF
BENZO BLUE BBN-CF
BENZO BLUE GS
BENZO BORDEAUX B
BENZO BROWN M
BENZO BROWN MC
BENZO CONGO RED
BENZO CORINTH G
BENZO CUPROL BLUE FBL
BENZO DARK BROWN B
BENZO DARK GREEN B
BENZO DARK GREEN BA-CF
BENZO DEEP BLACK E
BENZO DEEP BLACK RW
BENZO DEEP BROWN NZ
BENZO FAST BROWN GRD-CF
BENZO FAST COPPER BLUE FBL

BENZIDINE-BASED DYES
(continued)

BENZO FAST COPPER BLUE FBLA-CF
BENZO FAST RED F
BENZO GREEN B
BENZO GREEN BG-CF
BENZO GREEN CA-CF
BENZO GREEN GA-CF
BENZO LEATHER BLACK E
BENZO LEATHER BLACK RW
BENZO ORANGE BROWN D3G
BENZO SCARLET B
BENZO VIOLET N
BENZOFORM BLACK BCN-CF
BENZORCO MILLING RED 3BM
BENZYL FAST RED GRG
BENZYL FAST YELLOW RS
BENZYL RED GR
BENZYL RED GS
BENZYL RED MG
BENZYL RED MR
BENZYL RED RS
BENZYL SCARLET BS
BENZYL YELLOW 8G
BERKSHIRE DIAZO BLACK BH
BERKSHIRE DIAZO BLACK BHSW
BERKSHIRE DIRECT BLACK RX
BERKSHIRE DIRECT BLUE 2B
BERKSHIRE DIRECT BROWN 3GN
BERKSHIRE DIRECT DARK GREEN WS
BERKSHIRE DIRECT FAST BROWN M
BERKSHIRE DIRECT FAST ORANGE 3G
BERKSHIRE DIRECT GREEN BX
BERKSHIRE DIRECT GREEN BXN
BERKSHIRE DIRECT GREEN LTCW
BERNACHROME YELLOW RG
BLACK 2EMBL
BLACK 3EMBL
BLACK 4EMBL
BLUE BH
BLUE 2B
BLUE 2B SALT
BORDEAUX DIRECT
BRASILAMINA BLACK GN
BRASILAMINA BLUE 2B
BRASILAMINA BROWN GN
BRASILAMINA BROWN GR
BRASILAMINA CONGO 4B
BRASILAMINA FAST BROWN 3RA
BRASILAMINA FAST RED F
BRASILAMINA GARNET B
BRASILAMINA GREEN B
BRASILAMINA GREEN G
BRASILAMINA VIOLET 3R
BRASILAZOL BLACK BH
BRILLIANT CHROME LEATHER BLACK H
BRILLIANT MILLING RED R EXTRA
BRILLIANT MILLING RED RA
BRILLIANT MILLING RED RA-CF
BRILLIANT MILLING YELLOW 6G
BRILLIANT YELLOW 6G
BROWN M
BROWN 4EMBL
BUCACID ORANGE R
BUCACID SILK RED 3B
BUFFALO GARNET R
C.I. ACID ORANGE 45
C.I. ACID ORANGE 63
C.I. ACID RED 85
C.I. ACID RED 85, DISODIUM SALT
C.I. ACID RED 89
C.I. ACID RED 97, DISODIUM SALT
C.I. ACID YELLOW 42
C.I. ACID YELLOW 42, DISODIUM SALT
C.I. ACID YELLOW 44
C.I. ACID YELLOW 44, DISODIUM SALT
C.I. DIRECT BLACK 4
C.I. DIRECT BLACK 4, DISODIUM SALT
C.I. DIRECT BLUE 158
C.I. DIRECT BLUE 158, TETRASODIUM SALT
C.I. DIRECT BLUE 2
C.I. DIRECT BLUE 2, TRISODIUM SALT
C.I. DIRECT BLUE 6
C.I. DIRECT BLUE 6, TETRASODIUM SALT
C.I. DIRECT BROWN
C.I. DIRECT BROWN 1
C.I. DIRECT BROWN 1, DISODIUM SALT
C.I. DIRECT BROWN 111
C.I. DIRECT BROWN 154
C.I. DIRECT BROWN 154, DISODIUM SALT
C.I. DIRECT BROWN 2
C.I. DIRECT BROWN 2, DISODIUM SALT
C.I. DIRECT BROWN 31
C.I. DIRECT BROWN 31, TETRASODIUM SALT
C.I. DIRECT BROWN 59
C.I. DIRECT BROWN 6

BENZIDINE-BASED DYES
(continued)

C.I. DIRECT BROWN 6, DISODIUM SALT
C.I. DIRECT BROWN 74
C.I. DIRECT BROWN 95
C.I. DIRECT GREEN
C.I. DIRECT GREEN 1
C.I. DIRECT GREEN 1, DISODIUM SALT
C.I. DIRECT GREEN 6, DISODIUM SALT
C.I. DIRECT GREEN 8
C.I. DIRECT ORANGE 1
C.I. DIRECT ORANGE 8
C.I. DIRECT ORANGE 8, DISODIUM SALT
C.I. DIRECT RED 1
C.I. DIRECT RED 1, DISODIUM SALT
C.I. DIRECT RED 10
C.I. DIRECT RED 10, DISODIUM SALT
C.I. DIRECT RED 13
C.I. DIRECT RED 13, DISODIUM SALT
C.I. DIRECT RED 28
C.I. DIRECT RED 28, DISODIUM SALT
C.I. DIRECT RED 37, DISODIUM SALT
C.I. DIRECT RED 89
C.I. DIRECT VIOLET 1
C.I. DIRECT VIOLET 1, DISODIUM SALT
C.I. DIRECT VIOLET 22
C.I. DIRECT YELLOW 20
C.I. MORDANT YELLOW 26
C.I. MORDANT YELLOW 26, TETRASODIUM SALT
*C.I. 22120
*C.I. 22130
C.I. 22145
C.I. 22155
C.I. 22195
*C.I. 22240
*C.I. 22245
*C.I. 22310
*C.I. 22311
C.I. 22345
C.I. 22370
C.I. 22410
C.I. 22480
C.I. 22570
*C.I. 22590
*C.I. 22610
C.I. 22870
C.I. 22880
C.I. 22890
C.I. 22910
C.I. 23900
C.I. 23910
C.I. 24555
C.I. 30045
*C.I. 30120
*C.I. 30140
*C.I. 30145
*C.I. 30235
*C.I. 30245
*C.I. 30280
*C.I. 30295
C.I. 30315
*C.I. 35660
*C.I. 36300
CALCOCID MILLING RED G
CALCOCID MILLING RED GP
CALCOCID MILLING RED 3B
CALCOCID MILLING YELLOW R
CALCODUR BROWN BRL
CALCOLOID DIAZO BLACK BHL
CALCOMINE BLACK
CALCOMINE BLACK EXL
CALCOMINE BLUE 2B
CALCOMINE BRIGHT GREEN
CALCOMINE BRIGHT GREEN BP
CALCOMINE BROWN B
CALCOMINE BROWN BN
CALCOMINE BROWN MCW
CALCOMINE BROWN MRS
CALCOMINE BROWN RP
CALCOMINE CATECHU 2B
CALCOMINE DARK GREEN BG
CALCOMINE DIAZO BLACK BHD
CALCOMINE DIAZO BLACK BTCW
CALCOMINE GARNET BY
CALCOMINE GREEN BY
CALCOMINE GREEN GN
CALCOMINE NAVY BL
CALCOMINE RED FC
CALCOMINE SCARLET B
CALCOMINE SCARLET BL
CALCOMINE VIOLET N
CALCOMINE YELLOW BROWN K
CALICO FLAVINE R
CAMELON SCARLET G
CARBIDE BLACK E
CARBIDE BLACK ER
CARBIDE BLACK FC

*In current production, 1981.

BENZIDINE-BASED DYES
(continued)

CETIL ANTHRACENE RED 3B
CHLORAMINE BLACK BH
CHLORAMINE BLACK C
CHLORAMINE BLACK EC
CHLORAMINE BLACK ERT
CHLORAMINE BLACK EX
CHLORAMINE BLACK EXR
CHLORAMINE BLACK E2B
CHLORAMINE BLACK W
CHLORAMINE BLACK XO
CHLORAMINE BLUE 2B
CHLORAMINE BROWN M
CHLORAMINE BROWN MR
CHLORAMINE BROWN 2ME
CHLORAMINE BROWN 2R
CHLORAMINE CARBON BLACK S
CHLORAMINE CARBON BLACK SJ
CHLORAMINE CARBON BLACK SN
CHLORAMINE FAST BROWN BRL
CHLORAMINE FAST CUTCH BROWN PL
CHLORAMINE FAST RED
CHLORAMINE FAST RED F
CHLORAMINE FAST RED FB
CHLORAMINE FAST RED FS
CHLORAMINE GARNET NR
CHLORAMINE GARNET R
CHLORAMINE GARNET RS
CHLORAMINE GREEN B
CHLORAMINE GREEN BC
CHLORAMINE GREEN 2B
CHLORAMINE GREEN 3G
CHLORAMINE RED B
CHLORANTINE FAST BROWN BRLL
CHLORAZOL BLACK BH
CHLORAZOL BLACK E
CHLORAZOL BLACK EA
CHLORAZOL BLACK EN
CHLORAZOL BLACK LF
CHLORAZOL BLACK LFA
CHLORAZOL BLUE B
CHLORAZOL BLUE BP
CHLORAZOL BORDEAUX B
CHLORAZOL BORDEAUX BP
CHLORAZOL BROWN LF
CHLORAZOL BROWN M
CHLORAZOL BROWN MP
CHLORAZOL BURL BLACK E
CHLORAZOL CORINTH GW
CHLORAZOL DARK GREEN PL
CHLORAZOL FAST RED FP
CHLORAZOL FAST RED FS
CHLORAZOL GREEN BN
CHLORAZOL GREEN BNP
CHLORAZOL LEATHER BLACK BH
CHLORAZOL LEATHER BLACK ENP
CHLORAZOL PAPER BROWN
CHLORAZOL PAPER BROWN B
CHLORAZOL PAPER GREEN BN
CHLORAZOL SILK BLACK G
CHLORAZOL VIOLET N
CHOCOLATE EMBL
CHROMAZOL YELLOW CR
CHROME CITRONINE RD
CHROME FAST RED F
CHROME FAST RED FB
CHROME FAST RED FW
CHROME LEATHER BLACK BH
CHROME LEATHER BLACK CR
CHROME LEATHER BLACK DS
CHROME LEATHER BLACK E
CHROME LEATHER BLACK EC
CHROME LEATHER BLACK EM
CHROME LEATHER BLACK ER
CHROME LEATHER BLACK FC
CHROME LEATHER BLACK G
CHROME LEATHER BLACK RM
CHROME LEATHER BLUE 2B
CHROME LEATHER BORDEAUX BC
CHROME LEATHER BRILLIANT BLACK ER
CHROME LEATHER BROWN BRLL
CHROME LEATHER BROWN BRSL
CHROME LEATHER BROWN BS
CHROME LEATHER BROWN M
CHROME LEATHER BROWN 5G
CHROME LEATHER DARK BLUE BHM
CHROME LEATHER DARK GREEN N
CHROME LEATHER DARK GREEN S
CHROME LEATHER DARK GREEN S CONC.
CHROME LEATHER FAST RED N
CHROME LEATHER GREEN B
CHROME LEATHER RED F
CHROME LEATHER RED F EXTRA
CHROME LEATHER SCARLET BS
CHROME PRINTING YELLOW RG
CHROMINE YELLOW R
CHROMO CITRONINE RD

BENZIDINE-BASED DYES
(continued)

CHROMOCITRONINE
CHROMOCITRONINE R
CHROMOTARTRINE CR
CHRYSAMINE K
CITRONINE YELLOW R
COIR DEEP BLACK C
COIR DEEP BLACK R
COLACID RED G
COLUMBIA BROWN M
COLUMBIA FAST RED F
CONGO BROWN G
CONGO CORINTH
CONGO CORINTH G
CONGO CORINTH GW
CONGO CORINTH MG
CONGO RED
CONGO RED CR
CONGO RED F
CONGO RED H
CONGO RED ICI
CONGO RED L
CONGO RED M
CONGO RED N
CONGO RED N FOR PAPER
CONGO RED R
CONGO RED RS
CONGO RED W
CONGO RED WS
CONGO RED 4B
CONGO RED 4BX
COOMASSI MILLING SCARLET GP
COOMASSIE MILLING SCARLET G
COOMASSIE MILLING SCARLET 5B
COOMASSIE RED PG
COOMASSIE RED PGP
COOMASSIE SCARLET G
COOMASSIE YELLOW R
COOMASSIE YELLOW RP
COOMASSIE YELLOW 7G
COPRANTINE PURE BLUE 2RLL
CORANIL SCARLET HERR
CORIACID SCARLET R
CORINTH BROWN G
COTTON BLACK MT
COTTON BORDEAUX R
COTTON CORINTH G
COTTON FAST ORANGE G
COTTON GREEN B
COTTON GREEN G
COTTON ORANGE R
COTTON RED L
COTTON RED 10B
COTTON RED 4BC
COTTON RED 5B
COTTON VIOLET R
CRESOTINE BLUE 2B
CRESOTINE BORDEAUX BG
CRESOTINE BROWN RC
CRESOTINE DARK GREEN B
CRESOTINE FAST RED F
CRESOTINE GREEN B
CRISPIN RED GM
CROMOCORIUM BROWN B
CROMOCORIUM BROWN TRB
CROMOCORIUM GREEN B
CROMOCORIUM GREEN G
CUPRANIL BROWN BCW
CUPRANIL BROWN BCWR
CUPRANIL BROWN G
CUPRODIAZOL LIGHT BLUE NL
CUPROFIX BLUE C-FBL
CUPROFIX BLUE CFBL
CUPROFIX BROWN GL
CUPROFIX PRINTING BLUE C-FBL
CUTAMIN BRILLIANT RED CG
CUTAMIN BROWN CM
CUTAMIN DARK BLUE CB
CUTAMIN RED CF
CYANINE FAST SCARLET G
CYANINE FAST SCARLET 3B
CYANINE FAST YELLOW M
DARAMENE SCARLET G
DARAMENE YELLOW 2G
DARK GREEN EMBL
DERMA FAST BLUE CW-4R
DERMA FAST BLUE CW4R
DERMA FAST BROWN W-GL
DERMAFIX BROWN PL
DERMAFIX BROWN 2R
DERMATOL YELLOW AGG
DIACID MILLING YELLOW H5G
DIACIDE ORANGE R
DIACOTTON BLACK BH
DIACOTTON BLUE BB
DIACOTTON BORDEAUX GS
DIACOTTON BORDEAUX KS

BENZIDINE-BASED DYES
(continued)

DIACOTTON BROWN CB
DIACOTTON BROWN M
DIACOTTON BROWN 3G
DIACOTTON CONGO RED
DIACOTTON DARK GREEN
DIACOTTON FAST RED F
DIACOTTON GREEN B
DIALUMINOUS BROWN BRS
DIMACIDE YELLOW F-RA CONC.
DIMACIDE YELLOW F-RA CONC. C
DIAMINE BLACK BH
DIAMINE BLACK BHM
DIAMINE BLUE
DIAMINE BLUE BB
DIAMINE BLUE 2B
DIAMINE BORDEAUX B
DIAMINE BORDEAUX BA-CF
DIAMINE BORDEAUX BC
DIAMINE BORDEAUX CGN
DIAMINE BROWN B
DIAMINE BROWN BC
DIAMINE BROWN M
DIAMINE BROWN MBA-CF
DIAMINE BROWN MR
DIAMINE BROWN MRC
DIAMINE BROWN 3GN
DIAMINE BROWN 3GN-CF
DIAMINE BROWN 3GPA
DIAMINE DARK GREEN B
DIAMINE DARK GREEN N
DIAMINE DEEP BLACK RW
DIAMINE DIRECT BLACK RW
DIAMINE FAST RED F
DIAMINE FAST RED FA-CF
DIAMINE FAST RED N
DIAMINE FAST RED OJCD
DIAMINE GREEN
DIAMINE GREEN B
DIAMINE GREEN G
DIAMINE GREEN GM
DIAMINE SCARLET BA-CF
DIAMINE VIOLET N
DIAMINOGENE VELOUR BLACK B
DIANIL DARK BLUE H
DIAPHTAMINE BLACK BH
DIAPHTAMINE BLACK MT
DIAPHTAMINE BLUE BB
DIAPHTAMINE BROWN M
DIAPHTAMINE BROWN 3G
DIAPHTAMINE BROWN 3GC
DIAPHTAMINE BROWN 3GR
DIAPHTAMINE FAST BLACK FE
DIAPHTAMINE FAST BROWN TB
DIAPHTAMINE FAST ORANGE PG
DIAPHTAMINE FAST ORANGE PGS
DIAPHTAMINE FAST RED B
DIAPHTAMINE FAST RED FC
DIAPHTAMINE GREEN B
DIAPHTAMINE GREEN GX
DIAPHTAMINE LIGHT BROWN BRLL
DIAPHTAMINE ORANGE R
DIAPHTAMINE VIOLET N
DIAPHTHAMINE BROWN B
DIAZAMINE BROWN 2R
DIAZAMINE ORANGE BO
DIAZINE BLACK BHC
DIAZINE BLACK H
DIAZINE BLACK HDW
DIAZINE BLACK HNJ
DIAZINE BLUE 2B
DIAZINE BROWN M
DIAZINE BROWN MWR
DIAZINE BROWN OR
DIAZINE DARK GREEN BO
DIAZINE DARK GREEN P
DIAZINE DIRECT BLACK BR
DIAZINE DIRECT BLACK R
DIAZINE FAST BROWN RSL
DIAZINE FAST RED F
DIAZINE GREEN B
DIAZINE GREEN DB
DIAZINE VIOLET N
*DIAZO BLACK BH
DIAZO BLACK BHN-CF
DIAZO BLACK BHSW
DIAZO BLACK BHSWK
DIAZO BLACK CR
DIAZO BLACK RW
DIAZO BROWN DDL
DIAZO BROWN MC
DIAZO DIRECT BLACK N
DIAZO FAST BLACK BH
DIAZO FAST BLACK MBH
DIAZO NAVY BLUE BH
DIAZOL BLACK BH
DIAZOL BLACK ER

*In current production, 1981.

BENZIDINE-BASED DYES
(continued)

DIAZOL BLACK ERN
DIAZOL BLACK GREEN N
DIAZOL BLUE 2B
DIAZOL BORDEAUX B
DIAZOL BORDEAUX TV
DIAZOL BRILLIANT ORANGE JN
DIAZOL BRILLIANT ORANGE 2JN
DIAZOL BRILLIANT ORANGE 2RN
DIAZOL BROWN B
DIAZOL BROWN M
DIAZOL CUTCH F
DIAZOL CUTCH FB
DIAZOL FAST RED F
DIAZOL FAST RED FS
DIAZOL GREEN B
DIAZOL GREEN BJ
DIAZOL GREEN BLACK N
DIAZOL GREEN J
DIAZOL LIGHT BROWN BRN
DIAZOL ORANGE 3R
DIAZOL SCARLET B
DIAZOL VIOLET N
DIAZOPHENYL BLACK BH
DIAZOPHENYL BROWN R
DICOREL BROWN LMR
DIMACIDE RED F-2J
DIMACIDE YELLOW F-R
DIPHENYL BLUE BLACK GHS
DIPHENYL BLUE BLACK MBH
DIPHENYL BLUE KF
DIPHENYL BLUE M2B
DIPHENYL BLUE 2B
DIPHENYL BORDEAUX BX
DIPHENYL BROWN BS
DIPHENYL BROWN BVV
DIPHENYL BROWN GR
DIPHENYL BROWN GRI
DIPHENYL BROWN MG
DIPHENYL BROWN RG
DIPHENYL BROWN TB
DIPHENYL BROWN V
DIPHENYL BROWN 3GT
DIPHENYL BROWN 3RB
DIPHENYL DARK GREEN B
DIPHENYL DARK GREEN BN
DIPHENYL DEEP BLACK VN
DIPHENYL FAST BROWN BRL
DIPHENYL FAST BROWN F
DIPHENYL FAST BROWN M
DIPHENYL FAST BROWN MD
DIPHENYL FAST RED B
DIPHENYL FAST RED F
DIPHENYL GARNET RB
DIPHENYL GREEN BB
DIPHENYL GREEN BY
DIPHENYL GREEN C
DIPHENYL GREEN GPD
DIPHENYL GREEN KG
DIPHENYL GREEN MB
DIPHENYL RED B
DIPHENYL RED BROWN GR
DIPHENYL RED BS
DIPHENYL SCARLET BS
DIRECT BLACK BH
DIRECT BLACK D
*DIRECT BLACK E 200%
DIRECT BLACK EW
DIRECT BLACK FR
DIRECT BLACK GAC
DIRECT BLACK GREEN
DIRECT BLACK GREEN N
DIRECT BLACK GW
*DIRECT BLACK GX 200%
DIRECT BLACK GXR
DIRECT BLACK JET
DIRECT BLACK K
DIRECT BLACK META
DIRECT BLACK METHYL
DIRECT BLACK MR
DIRECT BLACK N
DIRECT BLACK R
DIRECT BLACK RW
DIRECT BLACK RW EX. CONC.
DIRECT BLACK RWN
DIRECT BLACK RX
*DIRECT BLACK RX 125%
DIRECT BLACK SD
DIRECT BLACK WS
DIRECT BLACK 2R
DIRECT BLACK 3RX
*DIRECT BLACK 4
DIRECT BLACK 4RX
*DIRECT BLACK 38
DIRECT BLUE A
DIRECT BLUE BB
DIRECT BLUE BLACK BH

BENZIDINE-BASED DYES
(continued)

DIRECT BLUE GS
DIRECT BLUE K
DIRECT BLUE M2B
*DIRECT BLUE 2
DIRECT BLUE 2B
DIRECT BLUE 2B CONC.
DIRECT BLUE 2B HT
*DIRECT BLUE 2B 250%
*DIRECT BLUE 6
DIRECT BORDEAUX
DIRECT BORDEAUX A
DIRECT BORDEAUX AN
DIRECT BORDEAUX B
DIRECT BORDEAUX BG
DIRECT BORDEAUX BN
DIRECT BORDEAUX TV
DIRECT BRILLIANT GREEN BB
DIRECT BRILLIANT GREEN C
DIRECT BRILLIANT GREEN CBM
DIRECT BRILLIANT ORANGE JN
DIRECT BRILLIANT ORANGE 3R
DIRECT BRILLIANT ORANGE 5G
DIRECT BRILLIANT VIOLET 2R
DIRECT BROWN B
*DIRECT BROWN B 125%
*DIRECT BROWN BCW
DIRECT BROWN BCW EX. CONC.
*DIRECT BROWN BRL
DIRECT BROWN BS
DIRECT BROWN BSB
DIRECT BROWN BY
DIRECT BROWN CMD
DIRECT BROWN CMD CONC.
DIRECT BROWN DB
DIRECT BROWN D3G
DIRECT BROWN D3Y
DIRECT BROWN FS
DIRECT BROWN G
DIRECT BROWN GR
DIRECT BROWN JJ
DIRECT BROWN KKH
*DIRECT BROWN M
DIRECT BROWN MB
DIRECT BROWN MHT
DIRECT BROWN MR
DIRECT BROWN M2GS
DIRECT BROWN RC
DIRECT BROWN RMR
DIRECT BROWN TRB
DIRECT BROWN ZHKH
DIRECT BROWN 1
*DIRECT BROWN 154
*DIRECT BROWN 2
*DIRECT BROWN 2R
DIRECT BROWN 3B
DIRECT BROWN 3G
*DIRECT BROWN 3GN
DIRECT BROWN 3GO
DIRECT BROWN 3RB
*DIRECT BROWN 31
DIRECT BROWN 5GR
*DIRECT BROWN 6
*DIRECT BROWN 74
*DIRECT BROWN 95
*DIRECT CATECHINE 3G
DIRECT CHROME BROWN G
DIRECT CLARET
*DIRECT CONGO RED 4B
DIRECT COPPER BLUE FB
DIRECT COTTON CONGO RED 4B
DIRECT DARK BLUE BH
DIRECT DARK BROWN B
DIRECT DARK GREEN
DIRECT DARK GREEN A
DIRECT DARK GREEN B
DIRECT DARK GREEN B HT
DIRECT DARK GREEN BF
DIRECT DARK GREEN BG
DIRECT DARK GREEN MB
DIRECT DARK GREEN S
DIRECT DARK GREEN SUPRA
DIRECT DARK GREEN WS
DIRECT DEEP BLACK E
DIRECT DEEP BLACK EA-CF
DIRECT DEEP BLACK EAC
DIRECT DEEP BLACK EW
DIRECT DEEP BLACK RW
DIRECT DEEP BLACK RWA-CF
DIRECT DEEP GREEN A
DIRECT DIAZO BLACK
DIRECT DIAZO BLACK C
DIRECT DIAZO BLACK N
DIRECT DIAZO BLACK RW
DIRECT DIAZO BLACK S
DIRECT FAST BLUE 2B
*DIRECT FAST BLUE 2B CONC.

*In current production, 1981.

BENZIDINE-BASED DYES
(continued)

DIRECT FAST BROWN B
DIRECT FAST BROWN BP
DIRECT FAST BROWN BRL
DIRECT FAST BROWN LMR
DIRECT FAST BROWN M
DIRECT FAST BROWN MM
DIRECT FAST BROWN RZ
DIRECT FAST BROWN TSN
DIRECT FAST BROWN TWC
DIRECT FAST BROWN V
DIRECT FAST BROWN VR
DIRECT FAST BROWN 2M
DIRECT FAST ORANGE G
DIRECT FAST ORANGE MNG
DIRECT FAST ORANGE P
*DIRECT FAST ORANGE R
DIRECT FAST ORANGE 3G
DIRECT FAST RED B
*DIRECT FAST RED F
DIRECT FAST RED F HT
DIRECT FAST RED FN
DIRECT FAST RED FR
DIRECT FAST RED G
DIRECT FAST RED MF
*DIRECT FAST SCARLET B
DIRECT FAST SCARLET BS
DIRECT FAST VIOLET MN
DIRECT FAST VIOLET N
DIRECT FAST VIOLET NHT
DIRECT GARNET B
DIRECT GARNET BY
DIRECT GARNET BYD
DIRECT GARNET LG
DIRECT GARNET R
DIRECT GREEN A
DIRECT GREEN B
DIRECT GREEN BN
DIRECT GREEN BP
*DIRECT GREEN BX
DIRECT GREEN BXN
DIRECT GREEN F2G
DIRECT GREEN G
DIRECT GREEN GX
DIRECT GREEN J
DIRECT GREEN JA
DIRECT GREEN MB
*DIRECT GREEN MT 150%
DIRECT GREEN TG
DIRECT GREEN WAC
*DIRECT GREEN WS
*DIRECT GREEN 1
DIRECT GREEN 2B
*DIRECT GREEN 6
DIRECT GREEN 8
DIRECT LIGHT BROWN BJN
DIRECT LIGHT BROWN BRS
DIRECT LIGHTFAST BROWN M
DIRECT LIGHTFAST PURE BLUE 2KU
DIRECT NAVY BLUE BH
DIRECT ORANGE G
DIRECT ORANGE R
DIRECT ORANGE RN
DIRECT ORANGE 1
DIRECT ORANGE 2RR
DIRECT ORANGE 3R
*DIRECT ORANGE 8
*DIRECT PAPER ORANGE R CONC.
DIRECT RED C
DIRECT RED DC-CF
DIRECT RED F
DIRECT RED FR
DIRECT RED K
DIRECT RED KH
DIRECT RED M
DIRECT RED MN
DIRECT RED M10B
DIRECT RED R
DIRECT RED Y
*DIRECT RED 1
DIRECT RED 10
DIRECT RED 10B
DIRECT RED 13
*DIRECT RED 28
*DIRECT RED 37
DIRECT RED 89
DIRECT ROSE MN
DIRECT SCARLET B
DIRECT SCARLET BS
DIRECT SUPRA LIGHT BROWN ML
DIRECT VIOLET C
DIRECT VIOLET FR
DIRECT VIOLET K
DIRECT VIOLET N
DIRECT VIOLET R
DIROCHROME BROWN G
DURAZOL BROWN BR

*In current production, 1981.

BENZIDINE-BASED DYES
(continued)

DURAZOL COPPER BLUE FB
DUROFAST BROWN BRL
DUROFAST BROWN BRLAW
DUROSOL MILLING RED G
ELBENYL YELLOW BN
ELCOFAST BROWN B CONC.
ELCOFAST CATECHINE 3G
ELCOFAST RED FD
ELCOMINE BLUE 2B 250%
ELCOMINE BROWN 3GN
ELCOMINE BROWN 3GNP
ELCOMINE CONGO RED
ELCOMINE GREEN MT 150%
ELCOMINE GREEN WT
ELCOMINE ORANGE RP CONC.
ELCOMINE SCARLET B
ELCOMINE VIOLET BW
ELCOMINE VIOLET BW 200
ELCOMINE VIOLET 3R CONC.
ELIAMINA LIGHT BROWN BRL
ELITE FAST RED G
ELITE FAST RED GRS
ENIANIL BLACK CN
ENIANIL BLACK RCN
ENIANIL BLUE 2BN
ENIANIL BROWN 3GO
ENIANIL DARK GREEN BG
ENIANIL FAST BROWN M
ENIANIL FAST RED F
ENIANIL GREEN B
ENIANIL GREEN BBN
ENIANIL GREEN GO
ENIANIL LIGHT BROWN BRL
ENIANIL ORANGE 2RR
ENIANIL VIOLET NN
ENIAZOL BLUE BLACK BHN
ERIE BLACK B
ERIE BLACK BF
ERIE BLACK GAC
ERIE BLACK GXOO
ERIE BLACK JET
ERIE BLACK NUG
ERIE BLACK RB
ERIE BLACK RF
ERIE BLACK RRAC
ERIE BLACK RW
ERIE BLACK RX
ERIE BLACK RXOO
ERIE BORDEAUX B
ERIE BRILLIANT BLACK S
ERIE BROWN CN
ERIE BROWN 3GN
ERIE CATECHINE 3G
ERIE CONGO 4B
ERIE CONGO 4BP
ERIE FAST BROWN B
ERIE FAST BROWN GR
ERIE FAST BROWN G2R
ERIE FAST BROWN 3RB
ERIE FAST BROWN 3RBD
ERIE FAST ORANGE G
ERIE FAST RED FD
ERIE FIBRE BLACK VP
ERIE GARNET B
ERIE GARNET B
ERIE GARNET WD
ERIE GREEN GPD
ERIE GREEN MT
ERIE GREEN TCM
ERIE GREEN WAC
ERIE GREEN WT
ERIE ORANGE 2R
ERIE SCARLET B
ERIE VIOLET 3R
ERIO FAST YELLOW RL
ERIOCHROME FLAVINE R
ERIONYL RED G
ERIOSIN RED R
FAST BROWN 3GN
FAST DISCHARGE BROWN RG
FAST RED F
FAST SCARLET B CONC.
FAST SCARLET S
FAST SILK YELLOW SH
FAST YELLOW P
FASTOLITE BRILLIANT BORDEAUX BN
FASTOLITE BROWN BRL
FASTOLITE ORANGE GL
FASTOLITE ORANGE RL
FASTUSOL BROWN LBRS
FASTUSOL BROWN LBRSA
FASTUSOL BROWN LBRSN
FENAFOR RED PG
FENAFOR YELLOW F5G
FENAFOR YELLOW P
FENALUZ BROWN BRL

BENZIDINE-BASED DYES
(continued)

FENAMIN BLACK E
FENAMIN BLACK RW
FENAMIN BLUE 2B
FENAMIN BORDEAUX B
FENAMIN BROWN BP
FENAMIN BROWN M
FENAMIN BROWN PBL
FENAMIN BROWN 3G
FENAMIN DIAZO BROWN RL
FENAMIN DIAZO BROWN 4RL
FENAMIN FAST BROWN G
FENAMIN FAST RED F
FENAMIN GREEN A
FENAMIN GREEN B
FENAMIN GREEN G
FENAMIN GREEN M
FENAMIN NAVY BLUE H
FENAMIN ORANGE R
FENAMIN SCARLET B
FENAMIN SCARLET BP
FENAZO RED FG
FENAZO RED FR
FENAZO YELLOW S
FIBRE BLACK VF
FINISH BROWN BR
FIXANOL BLACK E
FIXANOL BLUE BH
FIXANOL BLUE 2B
FIXANOL BROWN LF
FIXANOL BROWN M
FIXANOL GREEN BN
FIXANOL RED FS
FIXANOL VIOLET N
FOLAN FAST SCARLET 4R
FOLAN RED G
FOLAN YELLOW G
FOLAN YELLOW 7G
FORMALINE BLACK C
FORMIC BLACK C
FORMIC BLACK CW
FORMIC BLACK EA
FORMIC BLACK MTG
FORMIC BLACK MTR
FORMIC BLACK TG
FORMO DIRECT BLUE 2B
FORMO DIRECT BORDEAUX GS
FORMO DIRECT BROWN CB
FORMO DIRECT BROWN M
FORMO DIRECT CONGO RED
FORMO DIRECT DARK GREEN B
HAEMOMEDICAL
HAEMONORM
HAVANA EMB
HELION BROWN BRSL
HELION ORANGE 2G
HEMORRHAGYL
HEXADERM RED MRG
HISPACID MILLING SCARLET SGN
HISPACID MILLING SCARLET 3G
HISPACID MILLING YELLOW 5G
HISPALUZ BROWN BRL
HISPAMIN BLACK EF
HISPAMIN BLACK 3RX
HISPAMIN BLUE 2B
HISPAMIN BROWN CTN
HISPAMIN BROWN DB
HISPAMIN CONGO 4B
HISPAMIN FAST BROWN NZ
HISPAMIN FAST BROWN 3R2B
HISPAMIN FAST RED FN
HISPAMIN GARNET BF
HISPAMIN GREEN B
HISPAMIN GREEN GO
HISPAMIN GREEN WT
HISPAMIN ORANGE PGN
HISPAMIN ORANGE PR
HISPAMIN ORANGE R
HISPAMIN VIOLET 3R
HONEY YELLOW 3GN
INDIGO BLUE 2B
INDOXINE KL
INTERMET BRILLIANT BLUE 2BL
INTRALITE FAST BROWN BRLL
INTRALITE FAST SCARLET BNLL
INTRALITE SCARLET BNLL
INTRAMET BRILLIANT BLUE 2BL
INTRAMET BRILLIANT BLUE 2BL
INTRANYL SCARLET R
INTRAZONE FAST ORANGE 2RN
INTRAZONE FAST RED GRG
JAPANOL BLACK BHK
JAPANOL BROWN M
JAPANOL BROWN RA
JAPANOL FAST RED F
JAPANOL FAST RED 1

BENZIDINE-BASED DYES
(continued)

JAPANOL VIOLET J
KAYAKU CONGO RED
KAYAKU DIRECT BLACK BH
KAYAKU DIRECT BLUE BB
KAYAKU DIRECT BROWN M
KAYAKU DIRECT BROWN 3G
KAYAKU DIRECT DARK GREEN B
KAYAKU DIRECT FAST RED F
KAYAKU DIRECT GREEN B
KAYAKU DIRECT SCARLET B.
KAYAKU DIRECT SCARLET B NEW
KAYANOL MILLING RED PG
KAYANOL RED PG
KAYARUS SUPRA BROWN BRS
KAYARUS SUPRA SCARLET BNL
KCA ACID MILLING YELLOW M
KCA LIGHT FAST BROWN BR
KCA SILK RED G
KOROSTAN RED G
LANAPERL FAST RED 3G
LANAPERL FAST YELLOW GR
LANAPERL RED G
LIBIA BROWN B
LIGHT FAST BROWN BR
MAHOGANY EMBL
MELANTHERINE BH
MELANTHERINE BHX
METACHROME RED F
METADIAZOL BROWN 2JO
METADIAZOL BROWN 3JO
METADIAZOL BROWN 4JO
MIDLON ORANGE PR
MIDLON RED PG
MIDLON YELLOW PR
MIDLON YELLOW PROPYL
MILLING BRILLIANT SCARLET GN
MILLING FAST ORANGE R
MILLING FAST ORANGE 2R
MILLING FAST RED G
MILLING FAST RED GL
MILLING FAST RED PG
MILLING FAST SCARLET 4R
MILLING FAST YELLOW R
MILLING FAST YELLOW 5G
MILLING ORANGE R
MILLING RED A
MILLING RED G
MILLING RED J
MILLING RED JR
MILLING RED MG
MILLING RED SWG
MILLING RED 2J
MILLING RED 3B
MILLING SCARLET DH
*MILLING SCARLET G
MILLING SCARLET R
MILLING SCARLET 2G
MILLING SCARLET 5B
MILLING YELLOW H5G
MILLING YELLOW H5GA
MILLING YELLOW H5GA-CF
MILLING YELLOW MR
MILLING YELLOW NGS
MILLING YELLOW NGS 1828
MILLING YELLOW R
MILLING YELLOW RX
MILLING YELLOW 3G
MILLING YELLOW 3J
MILLING YELLOW 6G
MILLING YELLOW 7J
MILLING YELLOW 7JL
MITSUI CONGO RED
MITSUI DIRECT BLACK BH
MITSUI DIRECT BLUE 2BN
MITSUI DIRECT BROWN GR
MITSUI DIRECT BROWN M
MITSUI DIRECT BROWN 3G
MITSUI DIRECT CORINTH G
MITSUI DIRECT DARK GREEN BX
MITSUI DIRECT FAST RED F
MITSUI DIRECT GREEN BC
MITSUI DIRECT GREEN GC
MITSUI DIRECT SCARLET BS
MITSUI DIRECT VIOLET LN
MITSUI MILLING SCARLET G
MORDANT YELLOW 26
NAILAMIDE BROWN V-DB
NAILAMIDE GREEN V-DB
NAILAMIDE ORANGE S-2R
NAILAMIDE RED S-G
NAILAMIDE RED V-DF
NAILAMIDE YELLOW S-R
NAILAMIDE YELLOW S-5G
NAPTHAMINE BLUE 2B
NAPTHAMINE BORDEAUX B
NAPTHAMINE BROWN DC

BENZIDINE-BASED DYES
(continued)

NAPTHAMINE BROWN D3G
NAPTHAMINE DARK GREEN B
NAPTHAMINE FAST RED F
NAPTHAMINE GREEN B
NAPTHAMINE VIOLET?N
NAPHTHALENE LEATHER GREEN BL
NAPHTHALENE LEATHER SCARLET G
NAPHTHALENE LEATHER YELLOW 2G
NAVY BLUE EMBL
NEKLAMIN BLACK BH
NEKLAMIN BROWN M
NEUTRAL RED PG
NIAGARA BLUE 2B
NIPPON BLUE BB
NIPPON BORDEAUX GS
NIPPON BROWN RG
NIPPON BROWN 3G
NIPPON CORINTH G
NIPPON DARK GREEN B
NIPPON DARK GREEN B CONC
NIPPON DEEP BLACK RL
NIPPON DEEP BLACK RL EXTRA
NIPPON DEEP BLACK 3RL
NIPPON FAST BROWN CB
NIPPON GREEN B
NIPPON ORANGE R
NIPPON SCARLET B
NIPPON VIOLET LN
NITTO ACID RED PG
NITTO DIRECT FAST BROWN GR
NITTO DIRECT ORANGE R
NITTO DIRECT SCARLET B
NYANZA FAST BROWN M
NYANZA FAST RED FA
NYANZA VIOLET B
NYLOMINE ACID GREEN P-2B
NYLOMINE ACID RED C-R
NYLOMINE ACID SCARLET C-R
NYLOMINE ACID SCARLET P-R
NYLOMINE ACID YELLOW CRS
NYLOMINE ACID YELLOW P-5R
NYLOMINE YELLOW C-R
NYLON FAST RED SWG
*NYLON FAST SCARLET PG
NYLOSAN PRINTING YELLOW PR
OPTANOL FAST SCARLET GN
OPTANOL ORANGE PRD
OPTANOL SCARLET GS
OPTANOL YELLOW R
OPTANOL YELLOW 5G
ORCO MILLING RED S
ORCO MILLING RED 3BM
ORCOACID MILLING RED RN
ORCOLITEFAST ORANGE GLZ
ORCOMINE CONGO RED
ORCOMINE DARK GREEN WS
ORCOMINE RED F
ORCOMINE SCARLET B
PAK CONGO RED
PAK DIRECT BLUE 2B
PAK DIRECT BORDEAUX B
PAK DIRECT FAST BROWN M
PAK DIRECT GREEN B
PAK DIRECT GREEN G
PAK FAST BORDEAUX B
PAK ORANGE RED
PANDURANCITRONINE R
PAPER BLACK RW
PAPER DEEP BLACK R
PAPER GREEN BG
PAPER ORANGE R
PAPER ORANGE RP
PAPER SCARLET BAP
PAPER SCARLET BP
PARALDEHYDE BLACK RW
PARAMINE BLACK BH
PARAMINE BLUE 2B
PARAMINE BROWN G
PARAMINE FAST BROWN M
PARAMINE FAST RED F
PARAMINE FAST SCARLET B
PARAMINE FAST VIOLET N
PARAMINE GREEN B
PARAMINE GREEN BN
PARANOL FAST BROWN BRL
PEERACID MILLING YELLOW 6G
PEERAMINE CONGO RED
PEERAMINE FAST BROWN BRL
PELACID SCARLET R
PERCHROME YELLOW GL
PHARMACINE YELLOW R
PHARMAGLO RED G
PHARMAGLO RED 2B
PHARMANIL SCARLET Y
PHARMATEX YELLOW G
PHENAMINE BLACK RW

*In current production, 1981.

BENZIDINE-BASED DYES
(continued)

PHENAMINE BLUE BB
PHENAMINE BLUE BBN
PHENAMINE BORDEAUX B
PHENAMINE BROWN MB
PHENAMINE BROWN 3G
PHENAMINE DARK GREEN B
PHENAMINE FAST BROWN GR
PHENAMINE FAST BROWN T
PHENAMINE FAST BROWN TSL
PHENAMINE FAST BROWN TWC
PHENAMINE FAST RED F
PHENAMINE GREEN BG
PHENAMINE GREEN C
PHENAMINE GREEN G
PHENAMINE GREEN YY
PHENAMINE SCARLET B
PHENAZO BLACK BH
PHENAZO BROWN R
PHENO BLUE 2B
PHENO BRIGHT GREEN
PHENO BROWN MRS
PHENO BROWN RP
PHENO BROWN 3GXX
PHENO FAST RED F
PHENO NAVY BLUE
PHENO VIOLET N
POLAN BORDEAUX BS
POLAN DARK GREEN BS
POLAN RED FS
POLAN SCARLET 2G
POLAN VIOLET RS
POLAN YELLOW 6G
POLAR RED G
POLAR RED GSUPRA
POLAR YELLOW R
POLOXAL BROWN 3GL
POLOXAL YELLOW RD
POLYCOR DARK GREEN S
POLYCOR RED GS
PONTACYL SCARLET R
PONTAMINE BLACK RRX
PONTAMINE BLUE BB
PONTAMINE BORDEAUX B
PONTAMINE BROWN
PONTAMINE BROWN BCW
PONTAMINE BROWN BT
PONTAMINE BROWN N3G
PONTAMINE BROWN RMR
PONTAMINE BROWN XR
PONTAMINE DEEP BLUE BH
PONTAMINE DIAZO BLACK BHSW
PONTAMINE DIAZO BROWN R
PONTAMINE FAST BROWN BRL
PONTAMINE FAST BROWN NP
PONTAMINE FAST RED F
PONTAMINE FAST RED FCB
PONTAMINE GARNET R
PONTAMINE GREEN BXN
PONTAMINE GREEN GXN
PONTAMINE GREEN S
PONTAMINE SCARLET B
PONTAMINE VIOLET N
PYRAZOL BLACK ER
PYRAZOL BLACK W
PYRAZOL BLUE 2BX
PYRAZOL BORDEAUX GL
PYRAZOL BROWN ADX
PYRAZOL BROWN D3Y
PYRAZOL BROWN MP
PYRAZOL BROWN MR
PYRAZOL BROWN PL
PYRAZOL BROWN TM
PYRAZOL BROWN TW
PYRAZOL BROWN 2R
PYRAZOL DARK RED BR,BRY,R
PYRAZOL FAST BROWN B
PYRAZOL FAST BROWN BRL
PYRAZOL GREEN BC
PYRAZOL GREEN BP
PYRAZOL GREEN F2G
PYRAZOL GREEN G
PYRAZOL GREEN GB
PYRAZOL GREEN 2B
PYRAZOL ORANGE RB
PYRAZOL RED BR
PYRAZOL RED C
PYRAZOLINE BROWN BRL
PYRAZOLON FAST ORANGE GN
RESIN FAST BLACK WP
RESOFIX BLUE C2RL
ROYCEPULP FAST ORANGE R
SANDOLAN MILLING YELLOW N-66
SANDOLAN PRINTING YELLOW PR
SANDOPEL DARK GREEN B
SATURN BROWN LBR
SELLA FAST RED C

BENZIDINE-BASED DYES
(continued)

SHIKISO ACID ANTHRACENE RED G
SHIKISO ACID ANTHRACENE RED 3BL
SHIKISO ACID FAST YELLOW MR
SHIKISO ACID RED PG
SHIKISO DIRECT DARK GREEN B
SHIKISO DIRECT SCARLET BX
SHOWA DIRECT FAST BROWN GR
SILK ORANGE R
SILK RED G
SILK RED 3B
SILK SCARLET G
SIRIUS SUPRA BROWN BRL
SIRIUS SUPRA BROWN BRS
SOLAMIDINE B
SOLAMINE LIGHT SCARLET B
SOLANTINE BROWN BRL
SOLAR BROWN PL
SOLAR MILLING RED 3B
SOLAR SCARLET BL
SOLEX BROWN R
SOLIUS LIGHT BROWN BRLL
SOLIUS LIGHT BROWN BRS
SOLIUS LIGHT SCARLET BNL
SOLOPHENYL SCARLET BNL
SOLUBILISED VAT BLUE 6
SOLUCONGO
SUGAI CONGO RED
SUGAI DIRECT BROWN M
SUGAI DIRECT ORANGE R
SULFAN YELLOW PR
SULFON RED J
SULFON SCARLET R
SULFON YELLOW PR
SULFONINE RED G
SULFONINE RED GN
SULFONINE RED GS
SULFONINE RED SG
SULFONINE YELLOW CSR
SULFONINE YELLOW PR
SULPHON YELLOW RS-CF
SULPHONOL RED PG
SUMILIGHT SUPRA BROWN BRS
SUMILIGHT SUPRA BROWN BRS FOR
SUMILIGHT SUPRA SCARLET BNS
SUMINOL BRILLIANT SCARLET DH
SUMINOL MILLING BRILLIANT YELLOW 5G
SUMINOL MILLING ORANGE R
SUMINOL MILLING RED PG
SUMINOL MILLING RED 3B
SUMINOL MILLING YELLOW MR
SUMINOL MILLING YELLOW RS
SUMINOL RED PG
SUMINOL YELLOW MR
SUMITOMO ACID ANTHRACENE RED 3BL
SUMITOMO FAST SCARLET G
SUMITOMO MILLING YELLOW H5G
SUNCHROMINE FAST YELLOW RR
SUPERCHROME YELLOW GRN
SUPERNYLITE SCARLET G
SUPRANOL FAST SCARLET GN
SUPRANOL RED PG
SUPRANOL RED PG-CF
SUPRANOL SCARLET BN
SUPRANOL SCARLET GN
SUPRANOL SCARLET GS
SUPRANOL YELLOW R
SUPRANOL YELLOW RA
SUPRAZO BROWN BRL
SUPREXCEL BROWN BRL
SUPREXCEL SCARLET BNLL
SYMULON ACID FAST YELLOW MR
SYMULON ACID RED PG
SYMULON DIRECT BLACK BH
SYMULON DIRECT BORDEAUX NS
SYMULON DIRECT BROWN GR
SYNODIRECT BLUE 2B 100%
SYNODIRECT ORANGE Y 100%
SYNODIRECT RED 4B 100%
TAKAOKA DIRECT ORANGE R
TAKAOKA DIRECT BROWN CB
TARDIREKT BROWN M
TARDIREKT GREEN B
TARDIREKT RED K
TELON FAST SCARLET N
TERTRACID MILLING RED AGE
TERTRACID MILLING RED A3B
TERTRACID MILLING RED G
TERTRACID MILLING YELLOW H5G
TERTRACID MILLING YELLOW R
TERTRACID MILLING YELLOW 3R
TERTRODIRECT BLACK BH
TERTRODIRECT BLACK BHS
TERTRODIRECT BLACK RW
TERTRODIRECT BLUE 2B
TERTRODIRECT BORDEAUX B
TERTRODIRECT BORDEAUX CG

BENZIDINE-BASED DYES
(continued)

TERTRODIRECT BROWN B
TERTRODIRECT BROWN CGN
TERTRODIRECT BROWN G
TERTRODIRECT BROWN MJ
TERTRODIRECT BROWN OXP
TERTRODIRECT BROWN TB
TERTRODIRECT FAST BROWN BR
TERTRODIRECT GREEN B
TERTRODIRECT GREEN BG
TERTRODIRECT GREEN G
TERTRODIRECT LIGHT SCARLET BNL
TERTRODIRECT ORANGE PG
TERTRODIRECT PONCEAU B
TERTRODIRECT RED C
TERTRODIRECT RED F
TERTRODIRECT VIOLET N
TETRAMINE BROWN S
TETRAMINE FAST BROWN BRDN EXTRA
TETRAMINE FAST BROWN BRP
TETRAMINE FAST BROWN BRS
TETRAZO DEEP BLACK R
TRIANTINE BROWN BRS
TRIANTINE FAST BROWN OG
TRIANTINE FAST BROWN OR
TRIANTINE LIGHT BROWN BRS
TRIANTINE LIGHT BROWN OG
TRIAZOL BROWN B
TRIAZOL FAST SCARLET B
TRISULFON BROWN M
TRISULFON BROWN TW
TRISULFON BROWN TWP
TRISULFON BROWN 3R
TRISULFON CONGO RED
TRISULFON GARNET BR
TRISULFON GARNET BRY
TRISULFON VIOLET N
TRISULPHONE BROWN B
ULTRA FLAVINE NS
UNION BORDEAUX BB
UNION BROWN DR
UNION DARK GREEN B
UNION FAST NAVY BLUE DS
UNION FAST RED 3B
UNION FAST SCARLET B
VEGENTINE FAST BROWN B
VILMALUZ FAST BROWN BRS
VILMAMIN BLACK RW
VILMAMIN BLUE GS
VILMAMIN BORDEAUX B
VILMAMIN CONGO RED
VILMAMIN DARK BROWN B
VILMAMIN DARK GREEN B
VILMAMIN FAST RED F
VILMAMIN GREEN B
VILMAMIN BROWN M
VILMANOL FAST RED G
VILMANOL FAST YELLOW R
VILMANOL FAST YELLOW 5G
VISCO GREEN G
VONDACEL BLACK RW
VONDACEL BLUE 2B
VONDACEL BORDEAUX B
VONDACEL BROWN BN
VONDACEL BROWN G
VONDACEL BROWN M
VONDACEL BROWN S
VONDACEL BROWN SP
VONDACEL DARK BLUE BH
VONDACEL GREEN B
VONDACEL GREEN DB
VONDACEL GREEN G
VONDACEL ORANGE P
VONDACEL RED CL
VONDACEL RED FN
VONDAMOL BRILLIANT RED BG
VONDAMOL BRILLIANT RED G
VONDAMOL FAST RED G
VONDAMOL FAST YELLOW H5G
WOOL SCARLET B
XYLENE MILLING RED G
XYLENE MILLING RED R
XYLENE MILLING RED 3BA
XYLENE MILLING YELLOW SH
XYLENE MILLING YELLOW 6G
ZAMBESI DARK BLUE BH

o-TOLIDINE-BASED DYES

*ACID BLACK 209
ACID LEATHER RED BG
*ACID RED 114
*ACID RED 167
ACNA NAPHTHOL G
AIREDALE RED RM
AIREDALE SCARLET 3BD
ALPHANOL FAST RED R
AMACID MILLING RED PBS
*AMACID MILLING RED PRS
AMANIL CHROME NAVY BLUE B
AMANIL FAST SCARLET 3B
AMANIL NAPHTHOL AS-G
AMANIL PURPURINE 4B
*AMANIL PURPURINE 4B CONC.
AMANIL SKY BLUE
AMANIL SKY BLUE R
AMANIL TOLUYLENE ORANGE Y
AMARTHOL AS-G
AMIDINE BLUE 4B
AMIDINE ORANGE GG
AMIDINE SCARLET 3B
ANSIGEN YELLOW GN
ARLANTHOL AS-G
ARLANTHOL ASG
*ATANYL RED RS
ATLANTIC DIRECT CHROME BLACK BLUE BA CONC.
ATLANTIC DIRECT NEW BLUE 5B
ATLANTIC DIRECT NEW BLUE 5B CONC.
ATLANTIC DIRECT ORANGE YA 125%
ATLANTIC FAST BROWN BR-NB CONC.
ATLANTIC MILLING RED B
ATLANTIC MILLING RED SWB
*ATLANTIC PRINTING ORANGE R
*ATLANTIC PRINTING ORANGE R DBL. SOLN.
*ATLANTIC PRINTING ORANGE R PDR.
*ATLANTIC PRINTING YELLOW GN DBL. SOLN.
*ATLANTIC PRINTING YELLOW GS DBL. SOLN.
*ATLANTIC PRINTING YELLOW GS PDR.
*ATLANTIC PRINTING YELLOW 2G PDR.
ATLANTIC PURPURINE 4B CONC.
ATLANTIC RESIN FAST BROWN BR-NB
*ATLANTIC SCARLET 3B
*ATANYL RED NJ
ATUL DIRECT RED 4B
AZAMIN 4B
AZIDINBLAU 3B
AZIDINE BLUE 3B
AZOCARD RED 4B
AZOGEN ORANGE R
AZOGEN YELLOW GG SOLN.
AZOGEN YELLOW GN
AZOGEN YELLOW GS
*AZOIC ORANGE COMPOSITION 3
*AZOIC YELLOW COMPOSITION 1
*AZOIC YELLOW COMPOSITION 2
*AZOIC YELLOW COMPOSITION 3
AZOPRINT YELLOW GG
AZOPRINT YELLOW GS
AZURRO DIRETTO 3B
BELACID MILLING RED B
BENCIDAL BLUE 3B
BENCIDAL PURPLE 4B
BENZAMINBLAU 3B
BENZAMINE BLUE
BENZAMINE BLUE 3B
BENZANIL BLUE R
BENZANIL BLUE 3BN
BENZANIL PURPURINE 4B
BENZANIL SCARLET 3B
BENZANOL BRILLIANT SCARLET 3B
BENZO BLUE
BENZO BLUE 3B
BENZO BLUE 3BS
BENZO NEW BLUE 5B-CF
BENZO NEW BLUE 5BFS
BENZO NEW BLUE 5BS
BENZO ORANGE PG
BENZO PURPURINE 4B
BENZO PURPURINE 4BS
BENZO RED 3B
BENZOBLAU 3B
BENZOPURPURIN 4B
BENZOPURPURINE 4B
BENZOPURPURINE 4B
*BENZOPURPURINE 4B EX. CONC.
BENZOPURPURINE 4B SPECIAL
BENZOPURPURINE 4BKX
BENZOPURPURINE 4BX
BENZYL FAST RED BG
BENZYL RED BR
BENZYL SCARLET 3BS
BERKSHIRE DIRECT PURPURINE 4B

*In current production, 1981.

o-TOLIDINE-BASED DYES
(continued)

BLEU DIAMINE
BLEU DIAZOLE N 3B
BLEU DIRECTE 3B
BLEU TRYPANE N
BLEUE DIRETTO 3B
BLUE EMB
BLUE 3B
BRASILAMINA BLUE 3B
BRASILAMINA RED 4B
BRASILAMINA BLUE 3B
BUCACID MILLING RED B
C.I. ACID RED 114
C.I. ACID RED 167
C.I. AZOIC COUPLING COMPONENT 5
C.I. AZOIC ORANGE 3
C.I. AZOIC YELLOW 1
C.I. AZOIC YELLOW 2
C.I. AZOIC YELLOW 3
C.I. DIRECT BLUE 14
C.I. DIRECT BLUE 25
C.I. DIRECT BLUE 25, TETRASODIUM SALT
C.I. DIRECT BLUE 26
C.I. DIRECT ORANGE 6, DISODIUM SALT
C.I. DIRECT RED 2
C.I. DIRECT RED 2, DISODIUM SALT
C.I. DIRECT RED 39
C.I. DIRECT RED 39, DISODIUM SALT
C.I. DIRECT YELLOW 95
*C.I. 23365
*C.I. 23375
*C.I. 23500
*C.I. 23630
*C.I. 23635
*C.I. 23790
*C.I. 23850
*C.I. 31930
*C.I. 37090
*C.I. 37120
*C.I. 37610
CALCOMINE BENZO PURPURINE 4BX
CALCOMINE RED 4BX
CALCOMINE SCARLET 3B
CALGENE YELLOW GG
CALGENE YELLOW GS
*CARTA BLUE 3B
*CARTA RED 3B
CENTRALINE BLUE 3B
CHLORAMINBLAU 3B
CHLORAMINE BLUE
CHLORAMINE BLUE 3B
CHLORAMINE NEW BLUE 5B
CHLORAMINE RED 3B
CHLORAZOL BLUE 3B
*CHROME LEATHER BLUE 3B
CHROME LEATHER RED 4B
CHROME LEATHER SCARLET 3BS
CIBANAPHTHOL AG
CITAZOLO YELLOW G
CONGO BLUE
CONGO BLUE 3B
CONGOBLAU 3B
COOMASSIE RED 2R
COTTON RED 4B
COTTON RED 4BS
COTTON RED 4BS CONC.
COTTON RED 4BS SUPRA
CRESOTINE BLUE 3B
*CUPROPHENYL YELLOW 3GL
DAITO GROUNDER G
DERMA BLUE 5B
DIACETYLACETOTOLIDIDE
DIACOTTON BENZOPURPURINE 4B
DIAMINBLAU 3B
DIAMINE BLUE 3B
DIAMINE PURPURINE 4B
DIAMINE RED 4B
DIAMINE SCARLET 3BA-CF
DIAMINEBLUE
DIANIL BLUE
DIANIL BLUE B
DIANIL BLUE H3G
DIANIL RED 4B
DIANILBLAU
DIANILBLAU H3G
DIAPHTAMINE BLUE TH
DIAPHTAMINE FAST SCARLET 3B
DIAPHTAMINE PURPURINE 4B
DIAZAMINE ORANGE GG
DIAZAMINE PURPURINE 4B
DIAZINE BLUE 3B
DIAZINE RED 4B
*DIAZO BLACK BH-NB
DIAZOL BLUE 3B
DIAZOL PURE BLUE BR
DIAZOL PURE BLUE BRA
DIAZOL PURPURINE 4B

*In current production, 1981.

o-TOLIDINE BASED DYES
(continued)

DIAZOL SCARLET 3B
DIMACIDE RED F-RB
DIMACIDE RED F-RBA
DIPHENYL BLUE 3B
*DIPHENYL BLUE 3B CONC.
DIPHENYL BLUE 3B EX. CONC.
*DIPHENYL BRILLIANT BLUE 5B
*DIPHENYL GREEN BBN
DIPHENYL ORANGE GG
DIPHENYL RED 3BS
DIPHENYL RED 4B
*DIPHENYL RED 4BS
DIPHENYL RED 4BS SUPRA
DIPHENYL SCARLET 3BS
DIRECT BLUE D3B
DIRECT BLUE FFN
DIRECT BLUE H3G
DIRECT BLUE M3B
DIRECT BLUE 26
*DIRECT BLUE 2B-NB
DIRECT BLUE 3B
*DIRECT BLUE 3B CONC.
DIRECT BLUE 3BX
DIRECT BLUE 5B
DIRECT BRILLIANT BLUE BC
DIRECT BRILLIANT BLUE 5BC
*DIRECT BRILLIANT BLUE 5BC CONC.
*DIRECT BROWN BRL-NB 200%
*DIRECT BROWN GG-NB
*DIRECT BROWN M-NB
*DIRECT BROWN US-NB
*DIRECT BROWN 230
*DIRECT CHROME BLUE BLACK B. EX. CONC.
DIRECT CHROME DARK BLUE 2B
*DIRECT FAST BROWN BCW-NB
*DIRECT FAST BROWN BP-NB CONC.
*DIRECT FAST BROWN BR-NB CONC.
*DIRECT FAST BROWN BRLT
DIRECT FAST BROWN 3RLT
*DIRECT FAST ORANGE Y 125%
DIRECT FAST RED 3B
DIRECT FAST SCARLET 3B
*DIRECT NEW BLUE 5B
*DIRECT NEW BLUE 5B CONC.
DIRECT ORANGE G
DIRECT ORANGE T
DIRECT ORANGE 6
DIRECT PURE BLUE 5B
DIRECT PURPURINE M4B
*DIRECT PURPURINE 4B
DIRECT RED DCB
DIRECT RED 2
*DIRECT RED 39
DIRECT RED 4A
DIRECT RED 4B
*DIRECT SCARLET 3B
DIRECT SCARLET 3BS
*DIRECT YELLOW 95
DIRECTAKOL BLUE 3BL
DIRECTBLAU 3B
DIROCHROME DARK BLUE B
DITOLYBIS(AZONAPHTHIONIC ACID)
DURGAGEN YELLOW GS
DURGAGEN YELLOW GG
ECLIPSE RED
ELBENYL RED BN
ELBENYL SCARLET 3BD
ELCOMINE BENZOPURPURINE
ELCOMINE SCARLET 3B
ELITE FAST RED B
ELITE FAST RED BG
ENIAGEM YELLOW GS
ENIAGEM YELLOW 3G
ENIANIL PURPURINE 4B
ERIE BENZO 4BP
ERIE ORANGE Y
ERIE RED 4B
ERIE SCARLET 3B
*ERIONYL RED RS
*ERIONYL RED RS 125%
*ERIONYL RED RS, RS 125%
FAST SCARLET
FENAFOR RED PB
FENAMIN BLUE 4B
FENAMIN SCARLET 3B
FOLAN RED B
FORMONOL RED RS
GARUDA SOGA GARAM KOENING N
HILTONAPHTHOL AS-G
HISPAMIN BLUE DB
HISPAMIN BLUE 3BX
HISPAMIN RED 4B
HOSTAGEN ORANGE R
HOSTAGEN YELLOW GN
HOSTAGEN YELLOW GS
*INTRAZONE RED BR

*In current production, 1981.

o-TOLIDINE BASED DYES
(continued)

KAMBOFAST YELLOW GGH
KAMBOGEN ORANGE R
KAMBOTHOL AS-G
KAMBOTHOL ASG
KAYAKU BENZOPURPURINE 4B
KAYAKU DIRECT SCARLET 3B
KAYANOL MILLING RED RS
KIWA GROUNDER G
KOROSTAN RED PRS
LANAPERL FAST RED R
LEATHER FAST RED B
*LEVANOL FAST RED GG NEW
MIDLON RED PRS
MILLING FAST RED B
MILLING FAST RED R
*MILLING RED B
MILLING RED BB
*MILLING RED G-NB
MILLING RED PBX
MILLING RED R
MILLING RED RB
MILLING RED RBA
*MILLING RED SWB
*MILLING RED SWB CONC.
MITSUI BENZOPURPURINE 4BX
MITSUI DIRECT SCARLET 3BX
MITSUI NAPHTHOZOL G
NAILAMIDE RED S-R
NAPHTAMINE BLUE 2B
NAPHTAMINE BLUE 3BX
NAPHTANILIDE G
NAPHTAZOL I
NAPHTAZOL J
NAPHTHAMINBLAU 3BX
NAPHTHAMINE BLUE 3BX
NAPHTHANIL G
NAPHTHOIDE G
NAPHTHOL AS-G
NAPHTHOL AS-G DISPERSIBLE
NAPHTHOL AS-G SOLN.
NAPHTHOL AS-G SUPRA
NAPHTHOL ASG
NAPHTHOL ASG 20% SOLN.
NAPHTHYLAMINE BLUE
NAPHTO G
NAPHTOELAN G
NAPHTOL AS-G
NAPHTOL AS-G SUPRA
*NEUTRAZOIC GOLDEN YELLOW R
*NEUTRAZOIC GOLDEN YELLOW R PDR.
NEUTRAZOIC ORANGE R PDR.
*NEUTRAZOIC YELLOW GS
*NEUTRAZOIC YELLOW GS PDR.
*NEUTRAZOIC YELLOW 2G
*NEUTRAZOIC YELLOW 2G PDR.
NIAGARA BLUE
NIAGARA BLUE 3B
NIAGARA BLUE 5B
NIAGARA CHROME BLUE BLACK B
NIKKAGEN YELLOW G
NIPPON NEW BLUE 5BS
NIPPON ORANGE GG
NOVANYL RED F-R
NYLOMINE RED C-2R
*NYLON FAST RED RM
NYLONSAN RED F-RS
*NYLOSAN RED F-BR
NYLOSAN RED F-RS
OPTANOL RED RS
ORCOACID MILLING RED RS
ORCOACID MILLING RED RS 125%
ORCOMINE SCARLET 3B
*PADAZOIC GOLDEN YELLOW RLL PDR.
*PADAZOIC ORANGE GR PDR.
*PADAZOIC YELLOW G PDR.
PAPER BLUE 1
PAPER RED 4BS
*PAPER RED 4BS CONC.
PAPER SCARLET 3BP
PARAMINE BLUE 3B
PARAMINE FAST SCARLET 3B
PARKIBLEU
PARKIPAN
PENETRATING BLACK AM-NB
PERGASIZE RED G
*PERGASOL BLUE 3B CONC.
*PERGASOL BRILLIANT BLUE 5B
*PERGASOL GREEN BBN
PERGASOL RED 3BS
*PERGASOL RED 4BS CONC.
PHARMASOL GOLDEN YELLOW N
PHARMASOL ORANGE R
PHARMASOL YELLOW GN
PHARMOL GOLDEN YELLOW N
PHARMOL ORANGE R
PHARMOL YELLOW GN

*In current production, 1981.

o-TOLIDINE BASED DYES
(continued)

PHENAMINE BLUE 5B
PHENAMINE PURPURINE 4B
PHENAMINE SCARLET 3B
PHENO FAST SCARLET 4B
PIPHENYL GREEN BBN
POLAN RED B
*POLAR RED B
POLAR RED B CONC.
POLAR RED RS
*POLAR RED RS CONC. 125%
POLOGEN YELLOW GN
POLYDOGEN ORANGE R
POLYDOGEN YELLOW G
POLYDOGEN YELLOW GG
POLYDOGEN YELLOW NK-G
PONTAMINE BLUE 3BX
PONTAMINE BLUE 5B
PONTAMINE SCARLET 3B
PRINTING ORANGE LR
PRINTING ORANGE R
PRINTING ORANGE R SOLN.
PRINTING YELLOW GA
PRINTING YELLOW GN
PRINTING YELLOW GS
PRINTING YELLOW 2G
PROMPT PRINTING YELLOW GGH
PURPURIN 4B
PURPURINE 4B
PYAZOL NEW BLUE
*PYRAZOL BLACK BF
*PYRAZOL BLUE 3B
*PYRAZOL DARK GREEN 3B
*PYRAZOL NEW BLUE 5B
*PYRAZOL RED 3B
PYROTROPBLAU
RAPID FAST YELLOW GGH
RAPIDOGEN GOLDEN YELLOW R
RAPIDOGEN YELLOW GS
RAPRICOL LEMON YELLOW 3G
RAPRICOL YELLOW GGH
RAPRIGEN YELLOW GG
RAPRIGEN YELLOW GS
RENOLBLAU 3B
ROMAGENE YELLOW GS
RONAGEN ORANGE R
RONAGEN YELLOW G
RONAGEN YELLOW GS
RONAGEN YELLOW 2G
SANATOL AS-G
SANATOL G
SANDOLAN RED N-RS
*SANDOLAN RED N-3B
*SELLA FAST BLACK FC
SELLA FAST RED RS
SELLA FAST RED V
SHIKISO DIRECT SCARLET 3B
SINAGEN YELLOW G
SINAGEN YELLOW 2G
SOLOPHENYL ORANGE ARL
SOLUNAPTOL YL
STABAGENE YELLOW 2G
SULPHONOL RED R
SULTAN RED 4B
SUMIKA FAST YELLOW GGH
SUMINOL MILLING RED RS
*SUPERNYLITE SCARLET B
SUPRANOL FAST RED GG
SUPRANOL RED PBX
SUPRANOL RED PBX-CF
SUPRANOL RED R
TELON FAST RED GG
*TELON FAST RED GG NEW
TERTRACID MILLING RED B
TERTRODIRECT RED 4B
THIUGEN YELLOW G
THIUGEN YELLOW GG
TOLUYLENE ORANGE G
TOLUYLENE ORANGE GR
TRIANOL DIRECT BLUE 3B
TRIAZOL FAST SCARLET 3B
TRIAZOLBLAU 3BX
TRYPAN BLUE
TRYPAN BLUE BPC
TRYPAN BLUE SODIUM SALT
TRYPANBLAU
TRYPANE BLUE
TULAGENE YELLOW 2G
TULATHOL AS-G
ULTRAZOL G
UNION FAST SCARLET 3B
VILMAMIN PURPURINE 4B
VILMANOL FAST RED R
VONDAMOL FAST RED RS
WINOFAST YELLOW GGH
WINSOGEN YELLOW GS
WOOL SCARLET 3B

*In current production, 1981.

o-DIANISIDINE-BASED DYES

ACCO NAF-SOL AS-BR
ACCO NAPHTHOL AS-BR
AIREDALE BLUE D
AIREDALE BLUE FFD
AIREDALE BLUE NGLD
AIREDALE BLUE RWD
AIZEN DIRECT SKY BLUE 5BH
*#AMAFAST BLUE 16BLL
*#AMAFAST BLUE 3GAV CONC.
#AMAFAST BLUE 3RLP LIQ.
#AMAFAST BLUE 3RLP PST.
*#AMAFAST BLUE 7RLL
*AMAFAST BLUE ARF
*#AMAFAST BOND BLUE 10 GLP CONC.
*#AMAFAST BOND BLUE 10 GLP LIQ.
AMANIL AZURINE G
AMANIL BLUE RW
AMANIL BLUE 2BX
AMANIL NAPHTHOL AS-BR
AMANIL SKY BLUE
*AMANIL SKY BLUE FF
*AMANIL SKY BLUE M LIQUID
*AMANIL SKY BLUE 6B
AMANIL SUPRA BLUE 9GL
AMARTHOL AS-BR
AMARTHOL FAST BLUE B BASE
AMIDINE SKY BLUE 5B EX.
ATLANTIC AZURINE G
*ATLANTIC AZURINE G CONC.
ATLANTIC BLUE RW
ATLANTIC DIAZO FAST BLUE MP
ATLANTIC DIRECT BLUE R CONC.
ATLANTIC DIRECT BLUE RW
*ATLANTIC DIRECT BLUE RW 100%
*ATLANTIC DIRECT BLUE 2BNB
ATLANTIC DIRECT BOND BLUE B
ATLANTIC DIRECT SKY BLUE M LIQ.
ATLANTIC DIRECT SKY BLUE 6B CONC.
ATLANTIC DIRECT SKY BLUE 6B EX. 200%
ATLANTIC DIRECT SKY BLUE 6B EX. 300%
*ATLANTIC PRINTING BLACK FOR PDR.
*ATLANTIC PRINTING BLACK 2B PDR.
*ATLANTIC PRINTING BLACK 3G PDR.
*ATLANTIC PRINTING BLUE D PDR.
*ATLANTIC PRINTING BLUE D-BC PDR.
*ATLANTIC PRINTING BLUE GB PDR.
*ATLANTIC PRINTING BROWN BR PDR.
*ATLANTIC PRINTING BROWN GGN PDR.
ATLANTIC PRINTING NAVY BLUE IR PDR.
*#ATLANTIC RESIN FAST BLUE ARL
*#ATLANTIC RESIN FAST BLUE BFL
*#ATLANTIC RESIN FAST BLUE BLA 150%
*#ATLANTIC RESIN FAST BLUE BLC
*#ATLANTIC RESIN FAST BLUE BRN
*#ATLANTIC RESIN FAST BLUE FFBL
*#ATLANTIC RESIN FAST BLUE LBGL
*#ATLANTIC RESIN FAST BLUE LLGG
*#ATLANTIC RESIN FAST BLUE LLU
*#ATLANTIC RESIN FAST BLUE LLU 200%
*#ATLANTIC RESIN FAST BLUE LLUG
*#ATLANTIC RESIN FAST BLUE RLX
*#ATLANTIC RESIN FAST BLUE UGLL
*#ATLANTIC RESIN FAST BLUE 16BLL CONC
*#ATLANTIC RESIN FAST BLUE 2RLL
*#ATLANTIC RESIN FAST BLUE 3GLL
*#ATLANTIC RESIN FAST BLUE 5GLL
*#ATLANTIC RESIN FAST BLUE 6GKS
*#ATLANTIC RESIN FAST BLUE 7GUL
*#ATLANTIC RESIN FAST BLUE 8BGI 200%
*#ATLANTIC RESIN FAST BLUE 8GLN
*#ATLANTIC RESIN FAST BLUE 8GUM
*#ATLANTIC RESIN FAST BLUE 9GLR
*ATLANTIC RESIN FAST GREY LVL
ATLANTIC SKY BLUE A
*ATLANTIC SKY BLUE A EX. CONC.
ATLANTIC SKY BLUE A SUPER CONC. 12
*ATLANTIC SKY BLUE FF EX. CONC.
ATLANTIC SKY BLUE FF
ATLANTIC SKY BLUE 6B
*ATLANTIC SKY BLUE 6B CONC.
*ATLANTIC STABLE BLUE B PDR.
ATUL DIRECT BLUE G
ATUL DIRECT BLUE X
ATUL DIRECT SKY BLUE
ATUL DIRECT SKY BLUE FB
AZINE BRILLIANT BLUE RW
AZINE BRILLIANT BLUE 6B
AZINE COPPER BLUE 2B
AZINE SKY BLUE 5B
AZOANTHRENE JET BLACK K EX. CONC.
AZOANTHRENE ROYAL BLUE L
AZOCARD BLUE 6B
AZOENE FAST BLUE B BASE
AZOENE FAST BLUE B SALT
AZOFORM BLUE FO

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

AZOGEN BLUE D
AZOGEN BLUE GN
AZOGENE FAST BLUE B
*AZOIC BLACK COMPOSITION 4
*AZOIC BLUE COMPOSITION 2
*AZOIC BLUE COMPOSITION 3
*AZOIC COUPLING COMPONENT 3
*AZOIC DIAZO COMPONENT 48
AZONENE FAST BLUE B SALT
AZOTOL DA
BELAMINE AZURINE G
BELAMINE SKY BLUE A
BELAMINE SKY BLUE FF
BENZANIL AZURINE G
BENZANIL BLUE RW
BENZANIL FAST COPPER BLACK R
BENZANIL FAST COPPER NAVY BLUE R
BENZANIL SKY BLUE
BENZANIL SKY BLUE FF
BENZANIL SUPRA BLUE FBGL
BENZANIL SUPRA BLUE NLG
BENZANIL SUPRA BLUE 2GN
BENZANIL SUPRA BLUE 2GNP
BENZANIL SUPRA BLUE 2RLL
BENZANOL AZURINE G
BENZANOL BLUE RW
BENZO AZURINE G
BENZO AZURINE GA-CF
BENZO AZURINE GS
#BENZO BLUE RWA
BENZO BLUE RWS
BENZO BRILLIANT BLUE 6BS
#BENZO COPPER BLUE CVBS
BENZO CUPROL BLACK RLW
*BENZOCUPROL NAVY BLUE RLW 200
#BENZO CUPROL NAVY BLUE RLW
BENZO FAST COPPER BLACK RLW
#BENZO FAST COPPER NAVY BLUE RLW
BENZO SKY BLUE
BENZO SKY BLUE A-CF
BENZO SKY BLUE S
BENZOAZURIN
BLUE BASE NB
*BLUE M LIQUID
*#BOND BLUE B
#BOND BLUE WD
BRASILAMINA BLUE G
BRASILAMINA BLUE RW
BRASILAMINA COPPER BLUE R
BRASILAMINA SKY BLUE 6B
BRILLIANT BENZO BLUE 6BA-CF
C.I. AZOIC BLACK 4
C.I. AZOIC BLUE 2
C.I. AZOIC BLUE 3
C.I. AZOIC COUPLING COMPONENT 3
C.I. DIRECT BLACK 114
C.I. DIRECT BLACK 91
C.I. DIRECT BLACK 91, TRISODIUM SALT
*#C.I. DIRECT BLACK 118
*C.I. DIRECT BLACK 167
*C.I. DIRECT BLUE 1
C.I. DIRECT BLUE 1, TETRASODIUM SALT
*#C.I. DIRECT BLUE 100
*C.I. DIRECT BLUE 15
C.I. DIRECT BLUE 15, TETRASODIUM SALT
*C.I. DIRECT BLUE 22
*#C.I. DIRECT BLUE 151
C.I. DIRECT BLUE 151, DISODIUM SALT
*C.I. DIRECT BLUE 156
*C.I. DIRECT BLUE 160
*#C.I. DIRECT BLUE 191
*#C.I. DIRECT BLUE 218
*C.I. DIRECT BLUE 269
C.I. DIRECT BLUE 22
C.I. DIRECT BLUE 22, DISODIUM SALT
*#C.I. DIRECT BLUE 224
C.I. DIRECT BLUE 225
C.I. DIRECT BLUE 229
*#C.I. DIRECT BLUE 267
C.I. DIRECT BLUE 269
*#C.I. DIRECT BLUE 76
*#C.I. DIRECT BLUE 76, TETRASODIUM SALT
*#C.I. DIRECT BLUE 77
*C.I. DIRECT BLUE 8
C.I. DIRECT BLUE 8, DISODIUM SALT
*#C.I. DIRECT BLUE 80
*#C.I. DIRECT BLUE 90
*#C.I. DIRECT BLUE 98
*#C.I. DIRECT BROWN 200
*C.I. DIRECT VIOLET 93
*C.I. DIRECT YELLOW 68
*#C.I. 23155
*C.I. 24140
*#C.I. 24175
*C.I. 24280
C.I. 24315

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

*C.I. 24400
*#C.I. 24401
*C.I. 24410
*#C.I. 24411
*C.I. 30400
*C.I. 37235
*C.I. 37575
CALCODUR BLUE 6GFL
CALCODUR RESIN FAST BLUE 6G
CALCOMINE AZURINE BT
CALCOMINE SKY BLUE FF
*CALCOMINE SKY BLUE 6BX CONC.
*#CARTA BLUE RUL
*#CARTA BLUE VP
*#CARTA GREY 3LBN
*CARTA SKY BLUE 2F
CARTASOL BLUE VP
*CARTASOL BLUE 2GF
*#CARTASOL BLUE 3RF
*#CARTASOL BLUE 4GF
CHICAGO BLUE RW
CHICAGO BLUE 6B
CHICAGO SKY BLUE 6B
CHLORAMINE BLUE BT
CHLORAMINE CHROME BLUE 2GLN
CHLORAMINE SKY BLUE A
CHLORAMINE SKY BLUE FF
CHLORAMINE SKY BLUE 4B
#CHLORANTINE FAST BLUE A2GLL
#CHLORANTINE FAST BLUE BLL
#CHLORANTINE FAST BLUE B5GL
#CHLORANTINE FAST BLUE 2RLL
#CHLORANTINE FAST BLUE 7GL
#CHLORANTINE FAST BLUE 7GLL
CHLORAZOL AZURINE
CHLORAZOL AZURINE G
CHLORAZOL BLUE RW
CHLORAZOL COPPER BLUE B
CHLORAZOL SKY BLUE FF
CHROME LEATHER BLUE BT
CHROME LEATHER PURE BLUE
CHROME LEATHER SKY BLUE GS
COPPER BLUE G
COTTON BLUE CVB
CRESOTINE BLUE 6B
CRESOTINE PURE BLUE
CROMOCORIUM BLUE R
CUPRODIAZOL LIGHT NAVY RL
CUPRODIAZOL LIGHT BLACK RL
CUPRODIAZOL LIGHT NAVY RL
CUPRODIRECT BLUE CVS
*CUPROFIX BLACK C-RL
CUPROFIX BLACK CRL
CUPROFIX BLUE FGL
CUPROFIX BLUE LUL
CUPROFIX BLUE 2GL
CUPROFIX DARK BROWN 3LB
CUPROFIX GREY 3LBN
CUPROFIX LIGHT BLUE 2RL
CUPROFIX NAVY BLUE CGBL
*CUPROFIX NAVY C-GRL
CUPROFIX PRINTING BLUE FGL
CUPROFIX PRINTING BLUE 2GL
CUPROFIX PRINTING GREY 3LBN
CUPROFIX YELLOW CZRL
*CUPROPHENYL BLACK BWL
CUPROPHENYL BLACK RL
*CUPROPHENYL BLACK RL 200%
*CUPROPHENYL NAVY BLUE BL
*CUPROPHENYL NAVY BLUE RL
CUPROPHENYL NAVY BLUE RL 200%
*CUPROPHENYL VIOLET 3RL
CUPROPHENYL YELLOW RL
*CUPROPHENYL YELLOW RL EXTRA
CUTAMIN BLUE CR
CYCLOFAST BOND BLUE B
CYCLOFAST BOND BLUE B LIQ.
DERMA BLUE R
DERMA FAST BLUE GREY W-3BL
DERMAFIX YELLOW 2F
DIACOTTON AZURINE G
DIACOTTON BRILLIANT BLUE RW
DIACOTTON COPPER BLUE BB
DIACOTTON SKY BLUE 5B
DIACOTTON SKY BLUE 6B
DIAMINE AZURINE G
DIAMINE BLUE RWS
DIAMINE BLUE 6B
DIAMINE SKY BLUE
DIAMINERAL BLUE CVB
DIANIL AZURINE G
DIAPHTAMINE AZURINE G
DIAPHTAMINE BLUE BS
DIAPHTAMINE BLUE RW
DIAPHTAMINE COPPER BLUE FO
DIAPHTAMINE LIGHT BLUE FBGL

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

DIAPHTAMINE PURE BLUE
DIATO BLUE BASE B
DIAZAMINE BLUE B
DIAZINE SKY BLUE FF
DIAZO FAST BLUE MP
*#DIAZO FAST BLUE MP, MP CONC.
DIAZOL BLUE J
DIAZOL BLUE RW
#DIAZOL BLUE 3JLNA
DIAZOL LIGHT BLUE 2RL
DIAZOL LIGHT BLUE 3JLN
DIAZOL LIGHT BLUE 7JL
#DIAZOL LIGHT BLUE 7JL U.C.
DIAZOL LIGHT BLUE 7JL ULTRA CONC.
DIAZOL LIGHT BLUE 7JLA
DIAZOL PURE BLUE 4B
DIAZOL PURE BLUE 6B
DIAZOPHENYL BLUE B
DIPHENYL BLUE BT
DIPHENYL BLUE G
DIPHENYL BRILLIANT BLUE
DIPHENYL BRILLIANT BLUE FF
*DIPHENYL BRILLIANT BLUE FF SUPRA
DIPHENYL SKY BLUE 6B
*DIRECT AZURINE G
*DIRECT AZURINE G CONC.
DIRECT AZURINE MG
DIRECT BLACK 91
DIRECT BLACK 114
*#DIRECT BLACK 118
DIRECT BLUE BR
DIRECT BLUE BT
DIRECT BLUE CV
DIRECT BLUE FF
DIRECT BLUE FFN
DIRECT BLUE G
DIRECT BLUE HH
DIRECT BLUE MRW
*#DIRECT BLUE R 100%, R. CONC.
DIRECT BLUE RW
*DIRECT BLUE RW CONC. 200 %
DIRECT BLUE RWN
DIRECT BLUE 1
DIRECT BLUE 10G
*#DIRECT BLUE 100
DIRECT BLUE 15
DIRECT BLUE 156
DIRECT BLUE 160
*#DIRECT BLUE 191 (S)
*#DIRECT BLUE 218
*#DIRECT BLUE 218/224 (S)
DIRECT BLUE 22
*#DIRECT BLUE 224
DIRECT BLUE 269
DIRECT BLUE 6B
DIRECT BLUE 6BS
*#DIRECT BLUE 76
DIRECT BLUE 8
DIRECT BLUE 80
*#DIRECT BLUE 90
DIRECT BLUE 98
DIRECT BOND BLUE BP
DIRECT BRIGHT BLUE
DIRECT BRILLIANT BLUE FF
DIRECT BRILLIANT BLUE MFF
DIRECT BRILLIANT SKY BLUE 6B
*DIRECT BRILLIANT SKY BLUE 6B EX. CONC.
*#DIRECT BROWN 200
DIRECT COPPER BLUE A
DIRECT COPPER BLUE B
#DIRECT FAST NAVY BRN
DIRECT LIGHTFAST BLUE KU
DIRECT PURE BLUE
DIRECT PURE BLUE FF
DIRECT PURE BLUE M
DIRECT PURE BLUE 6B
DIRECT PURE SKY BLUE
DIRECT SKY BLUE
DIRECT SKY BLUE A
*DIRECT SKY BLUE A SUPRA CONC. 125%
DIRECT SKY BLUE FF
*DIRECT SKY BLUE FF EX. 200%
*DIRECT SKY BLUE FF EX. 300%
DIRECT SKY BLUE GREEN SHADE
DIRECT SKY BLUE GS
DIRECT SKY BLUE 5B
DIRECT SKY BLUE 6B
*DIRECT SKY BLUE 6B CONC.
*DIRECT SKY BLUE 6B EX. 200%
*DIRECT SKY BLUE 6B EX. CONC. 300%
DIRECT SKY BLUE 6BS
DIRECT VIOLET 93
DIRECT YELLOW 68
#DURAZOL BLUE 2GN
DURAZOL BLUE 2GNP

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

#DURAZOL BLUE 5G
DUROFAST BLUE S
DUROFAST BLUE UGLL
DUROFAST BLUE 16BLL
DUROFAST BLUE 2RLL
DUROFAST BLUE 3GAV
DUROFAST BLUE 3GLL
DUROFAST BLUE 7RLL
#ELCOFAST BLUE 2RL
#ELCOFAST BOND BLUE
ELCOFAST DIAZO BLUE B CONC.
ELCOMINE BOND BLUE S
ENIANIL BLUE CVB
ENIANIL BLUE CVBO
ENIANIL BLUE RW
ENIANIL BRILLIANT BLUE FF
ENIANIL PURE BLUE AN
FAST BLUE B BASE
FAST BLUE B BASE DISP.
*FAST BLUE B SALT
*FAST BLUE B-ND BASE
FAST BLUE B-ND SALT
FAST BLUE B-48
FAST BLUE D-ND SALT
#FASTUSOL BLUE LFGL
#FASTUSOL BLUE LR
#FASTUSOL BLUE LRRU
#FASTUSOL BLUE L6G
#FASTUSOL BLUE 9GLP
#FASTUSOL BLUE 9GLP LIQ.
#FASTUSOL BRILLIANT BLUE L2GU
#FASTUSOL BRILLIANT BLUE L8GU
#FENALUZ BLUE FG
#FENALUZ BLUE FRL
#FENALUZ BLUE 2RL
#FENALUZ BLUE 6GL
#FENALUZ BLUE 9GLP
#FENALUZ BRILLIANT BLUE 8G
FENAMIN BLUE GR
FENAMIN BLUE RW
FENAMIN SKY BLUE
FENAMIN SKY BLUE 3F
FENOGEN BLUE GN
FIXAMINE BLUE RLL
FIXANOL SKY BLUE FF
FORMO DIRECT SKY BLUE 5B
HILTONAPHTHOL AS-BR
HILTONIL FAST BLUE B BASE
HISPALUZ BLUE BGL
HISPAMIN BLUE G
HISPAMIN BLUE RW
HISPAMIN SKY BLUE 3B
HISPAMIN SKY BLUE 6B
HOSTAGEN BLUE G
HOSTAGEN BLUE GB
INDOXINE DRB
INK BLUE 6B
*#INTRABOND LIQUID BLUE 8GLL
INTRABOND LIQUID SKY BLUE M
*#INTRALITE BLUE NBLL
*#INTRALITE BLUE 2RLL
*#INTRALITE BLUE 8GLL
*#INTRALITE BRILLIANT BLUE L
INTRALITE FAST BLUE BLL
#INTRALITE FAST BLUE 2RLL
#INTRALITE FAST BLUE 8GLL
INTRALITE FAST BLUE 9GLL
*INTRAMET BLACK GM
*INTRAMET NAVY BLUE RL
INTRAMET NAVY BLUE RLL
*INTRAMET NAVY BLUE RLL CONC. 200%
*INTRAMET YELLOW RL
JAPANOL BRILLIANT BLUE RWL
JAPANOL BRILLIANT BLUE 6BKX
KAMBAMINE BLUE B
KAYAKU DIRECT BRILLIANT BLUE RW
KAYAKU DIRECT SKY BLUE 5B
KAYAKU DIRECT SKY BLUE 6B
KAYARUS SUPRA BLUE FGL
KAYARUS SUPRA GREY L3B
KCA DIRECT AZURINE G
LUMICREASE DARK BROWN 3LB
LUMICREASE BLUE 2RL
LUMICREASE BLUE 4GL
LUMICREASE DARK BROWN 3BL
*#LUMICREASE DARK BROWN 3LB
*#LUMICREASE GREY 3LBN
LUMICREASE SKY BLUE 4GL
LUMICREASE SKY BLUE 6GUL
#LURANTIN FAST BLUE LR
#LURANTIN FAST BLUE LRRU
#LURANTIN FAST BLUE L6G
METADIAZOL BLUE CV
MITSUI BLUE B BASE
MITSUI DIRECT BLUE RW
MITSUI DIRECT BRILLIANT BLUE 6B

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

MITSUI DIRECT SKY BLUE 5B
NAPHTAMINE BLUE BG
NAPHTAMINE BLUE RW
NAPHTAMINE BLUE 10G
NAPHTAMINE SKY BLUE DD
NAPHTANILIDE BR
*NAPHTHOL AS-BR
NAPHTHOL AS-BR SOLN.
NAPHTHOL AS-BR 20% SOLN.
*NEUTRAZOIC BLACK FOR PDR.
*NEUTRAZOIC BLACK GF 167% PDR.
*NEUTRAZOIC BLACK JN PDR.
*NEUTRAZOIC BLACK 2B PDR.
*NEUTRAZOIC BLUE AS PDR.
*NEUTRAZOIC BLUE D
NEUTRAZOIC BLUE D PDR.
*NEUTRAZOIC BLUE GB PDR.
*NEUTRAZOIC BLUE GN PDR.
*NEUTRAZOIC BROWN BR PDR.
NIAGARA BLUE G
NIAGARA BLUE R
NIAGARA BLUE RW
NIAGARA BLUE 4B
NIAGARA SKY BLUE
NIAGARA SKY BLUE 6B
NIPPON DIRECT SKY BLUE
NIPPON SKY BLUE
NITTO DIRECT SKY BLUE 5B
NYALITE BLUE RL
NYALITE FAST BLUE RL
NYANZA BLUE RW
NYANZA SKY BLUE 6B
NYLCONTRAST BROWN BL
*PADAZOIC BLACK GLL PDR.
*PADAZOIC BLACK RLL PDR.
*PADAZOIC BLACK 2G 150% PDR.
*PADAZOIC BLUE GP PDR.
*PADAZOIC BRILLIANT INDIGO 3B PDR.
*PADAZOIC DENIM INDIGO BLUE G PDR.
*PADAZOIC DENIM INDIGO PDR.
*PADAZOIC FARMER BROWN PDR.
*PADAZOIC NAVY BLUE WS EX PDR.
*PAPER BLACK G LIQUID
*#PAPER BLUE 3GAP
PAPER BLUE 6B
PAPER FAST BLUE FBGL
PAPER FAST BLUE 3G
PAPER SKY BLUE S
PAPER SKY BLUE S LIQUID 35
PARAMINE SKY BLUE FF
*#PERGASOL BLUE 2RL
#PERGASOL BLUE 4RAL
#PERGASOL BLUE 8GLP
*#PERGASOL BLUE 8GLP LIQ.
*PERGASOL BLUE GA CONC.
PHARMASOL BLUE G
PHARMASOL BLUE GB
PHARMOL BLUE G
PHARMOL BLUE GB
PHENAMINE AZURINE G
PHENAMINE BLUE RW
PHENAMINE BRILLIANT BLUE 6B
PHENAMINE SKY BLUE A
PHENO BRILLIANT BLUE BT
PHENO SKY BLUE 6BX
POLOGEN BLACK BGN
PONTACYL SKY BLUE 4BX
PONTAMINE BLUE AB
*PONTAMINE BLUE AB LIQ.
PONTAMINE BLUE AX
PONTAMINE BLUE RW
*PONTAMINE BLUE WE LIQ.
#PONTAMINE BOND BLUE B
*#PONTAMINE BOND BLUE B LIQ.
PONTAMINE BOND BLUE 3-G
PONTAMINE COPPER BLUE RRX
#PONTAMINE FAST BLUE 2RL
PONTAMINE FAST BLUE 6GL
#PONTAMINE FAST BLUE 7GLN
PONTAMINE SKY BLUE
PONTAMINE SKY BLUE M
*PONTAMINE SKY BLUE M LIQ.
*PONTAMINE SKY BLUE NW LIQ.
PONTAMINE SKY BLUE 5 BX
PONTAMINE SKY BLUE 5BX
PONTAMINE SKY BLUE 6BX
PONTAMINE SKY BLUE 6BX GREENISH
POTAMINE BLUE AB LIQ.
PRINTING BLACK 2G
PRINTING BLUE D
PRINTING BLUE G
PRINTING BLUE G SOLN.
PRINTING BLUE GN
PURE BLUE
PURE SKY BLUE 6B
PYRAZOL BLUE A

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

PYRAZOL BLUE BT
PYRAZOL BLUE FO
PYRAZOL BLUE 2F
PYRAZOL FAST BLUE BGUL
*#PYRAZOL FAST BLUE FGL
PYRAZOL FAST BLUE GUL
*#PYRAZOL FAST BLUE LUL
*#PYRAZOL FAST BLUE RUL
*#PYRAZOL FAST BLUE 2GLN
PYRAZOL FAST BLUE 4GUL
PYRAZOL FAST BRILLIAN BLUE VP
PYRAZOL FAST BRILLIANT BLUE VP
PYRAZOL FAST SKY BLUE 7GLN
*#PYRAZOL FAST SKY BLUE 7GUL
*PYRAZOL SKY BLUE FF
PYRAZOLINE BLUE NP
PYRAZOLINE BLUE 2RCF
PYRAZOLINE BLUE 2RLCF
RAPIDOGEN BLACK 3G
RAPIDOGEN BLUE D
RAPIDOGEN BLUE GN
RAPIDOGEN BLUE GN SOLN.
RESIN FAST BLUE RUL
RESIN FAST BLUE UGLL
*RESIN FAST BLUE 16BLL
RESIN FAST BLUE 2RLL
RESIN FAST BLUE 3GAB
*#RESIN FAST BLUE 3GAV
RESIN FAST BLUE 3GL
*#RESIN FAST BLUE 3GLL
*#RESIN FAST BLUE 7RLL
*#RESIN FAST BLUE 8GLN
*#RESIN FAST NAVY WRA
RESOFIX BLUE 2GL
RHODAMINE 12G EXTRA
RHODAMINE 12GF
ROMAGENE BLUE GS DBL. SOLN.
SANATOL BR
SATURN BLUE LAG
SATURN BLUE LFBG
SHIKISO DIRECT BRILLIANT BLUE RW
SHIKISO DIRECT SKY BLUE 5B
SHIKISO DIRECT SKY BLUE 6B
SIRIUS BLUE FGG200
SIRIUS BLUE F4GA
*#SIRIUS SUPRA BLUE BRL
SIRIUS SUPRA BLUE FBGL
SIRIUS SUPRABLUE GRLL
#SIRIUS SUPRA BLUE 2RL
SIRIUS SUPRA BLUE 4G
#SIRIUS SUPRA BLUE 5G
SKY BLUE FF
SKY BLUE 4B
SKY BLUE 5B
SKY BLUE 6B
#SOLANTINE BLUE GLFV
#SOLANTINE BLUE SFRL
#SOLANTINE BLUE 10GL
#SOLANTINE BLUE 6GKS
#SOLANTINE BLUE 8GL
SOLAR BLUE FGL
SOLAR BLUE 2GLN
SOLAR BLUE 2RL
SOLAR BLUE 4GL
SOLAR DARK BROWN 3LB
SOLAR GREY 3LBN
SOLEX BLUE FBGL
SOLEX BLUE RL
SOLIUS LIGHT BLUE FBGL
SOLIUS LIGHT BLUE 7GL
#SOLOPHENYL BLUE A4RL
*#SOLOPHENYL BLUE RBL
*#SOLOPHENYL BLUE 2RL
#SOLOPHENYL BLUE 3GL
#SOLOPHENYL BLUE 6GL
*#SOLOPHENYL BLUE 8GL
*#SOLOPHENYL BLUE 8GLP LIQ.
*SPECIAL BLACK G LIQ.
*SPECIAL BLUE AB LIQ.
*SPECIAL SKY BLUE M
STABLE BLUE B BASE
SUMILIGHT SUPRA BLUE FBGL
SUMILIGHT SUPRA BLUE FGL
*#SUPERLITEFAST BLUE RL
*#SUPERLITEFAST BLUE GL
*#SUPERLITEFAST BLUE RLE
SUPERLITEFAST BLUE RLF
*#SUPERLITEFAST BLUE WB
*#SUPERLITEFAST BLUE 3GLST
*#SUPERLITEFAST BLUE 8GLN
*#SUPERLITEFAST BLUE 8GUL
*#SUPERLITEFAST BRILLIANT BLUE 16BLL
#SUPERLITEFAST BRILLIANT BLUE 3GLST
#SUPERLITEFAST GL
*#SUPERLITEFAST GREY LVL
*#SUPERLITEFAST RUBINE WLKS

*In current production, 1981.
#Metallized dye

o-DIANISIDINE-BASED DYES
(continued)

TARDIREKT BLUE 6B
TERTRODIRECT BLUE AG
TERTRODIRECT BLUE CVB
TERTRODIRECT BLUE F
TERTRODIRECT BLUE FF
TERTRODIRECT BLUE RW
TERTRODIRECT FAST YELLOW 3RS
TETRAMINE LIGHT BLUE FPB
TRIANTINE LIGHT YELLOW RR
TRIMAAL BLUE CVBN
TRIMAL BLUE CVBN
TRISULFON BLUE FO
TRISULFON BLUE RW
VEGENTINE BLUE CSW
VISCO MILLING NAVY R
VONDACEL BLUE FF
VONDACEL BLUE HH
VONDACEL DARK BLUE CVB

APPENDIX B

SOURCES OF ADDITIONAL INFORMATION

1. NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

Division of Standards Development and Technology Transfer, Technical Information Branch

This office responds to inquiries from individuals and organizations on occupational safety and health issues.

4676 Columbia Parkway
Cincinnati, Ohio 45226

NIOSH Regional Offices

Region I - Boston, Massachusetts: Connecticut, Maine, Massachusetts New Hampshire, Rhode Island, Vermont	Regional Consultant, NIOSH DHHS, Region I Government Center (JFK Fed. Bldg.) Boston, Massachusetts 02203 Tel: 617/223-6668 FTS: 223-6668
Region II - New York, New York: New Jersey, New York, Puerto Rico, Virgin Islands	Regional Consultant, NIOSH DHHS, Region II - Fed. Building 26 Federal Plaza New York, New York 10007 Tel: 212/264-2485 FTS: 264-2485
Region III - Philadelphia, Pennsylvania: Delaware, District of Columbia, Maryland Pennsylvania, Virginia, West Virginia	Regional Consultant, NIOSH DHHS, Region III P. O. Box 13716 Philadelphia, Pennsylvania 19101 Tel: 215/596-6716 FTS: 596-6716
Region IV - Atlanta, Georgia: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee	Regional Consultant, NIOSH DHHS, Region IV, Div. of Preventive Health Services 101 Marietta Tower, Suite 1007 Atlanta, Georgia 30303 Tel: 404/221-2396 FTS: 242-2396

Region V - Chicago, Illinois: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin	Regional Consultant, NIOSH DHHS, Region V 300 South Wacker Drive, 33rd Floor Chicago, Illinois 60606 Tel: 312/886-3881 FTS: 886-3881
Region VI - Dallas, Texas: Arkansas, Louisiana, New Mexico, Oklahoma, Texas	Regional Consultant, NIOSH DHHS, Region VI 1200 Main Tower Bldg., Rm. 1700-A Dallas, Texas 75202 Tel: 214/767-3916 FTS: 729-3916
Region VII - Kansas City, Missouri: Iowa, Kansas, Missouri, Nebraska	Regional Consultant, NIOSH DHHS, Region VII 601 East 12th Street Kansas City, Missouri 64106 Tel: 816/374-5332 FTS: 758-5332
Region VIII - Denver, Colorado: Colorado, Montana, Utah, Wyoming, North Dakota, South Dakota	Regional Consultant, NIOSH DHHS/PHS/PREVENTION-Region VIII Denver, Colorado 80294 Tel: 303/837-3979 FTS: 327-3979
Region IX - San Francisco, California: Arizona, California, Hawaii, Nevada, Guam	Regional Consultant, NIOSH DHHS, Region IX 50 United Nations Plaza San Francisco, California 94102 Tel: 415/556-3781 FTS: 556-3781
Region X - Seattle, Washington: Alaska, Idaho, Oregon, Washington	Regional Consultant, NIOSH DHHS, Region X 1321 Second Avenue (Arcade Bldg.) Seattle, Washington 98101 Tel: 206/442-0530 FTS: 399-0530

2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, U.S. DEPARTMENT OF LABOR

Refer to the white pages of the telephone directory under "U.S. Department of Labor, Occupational Safety and Health Administration."

3. DYES ENVIRONMENTAL AND TOXICOLOGY ORGANIZATION

This is a trade organization of dye manufacturers involved with health effects of commercial dyes.

DETO
1075 Central Park Avenue
Scarsdale, New York 10583

4. AMERICAN ASSOCIATION OF TEXTILE COLORISTS AND CHEMISTS

AATCC
P.O. Box 12215
Research Triangle Park, North Carolina 27709

In addition to publishing a periodical, this organization also publishes the Colour Index, a specialized multi-volume reference work that may be useful in identifying chemical dye components. This reference is most often found in reference collections of research libraries. Persons seeking to identify dye chemicals who do not have access to the Index can obtain assistance from NIOSH at the address given above for its Technical Information Branch.

5. AMALGAMATED CLOTHING AND TEXTILE WORKERS UNION

ACTWU
Occupational Safety and Health Department
15 Union Square
New York, New York 10003

6. FOOD AND BEVERAGES TRADES COUNCIL, AFL-CIO (leather dyeing)

Food and Beverages Trades Council, AFL-CIO
Health and Safety Program
815 16th Street, N.W.
Washington, D.C. 20006

7. UNITED PAPERWORKERS INTERNATIONAL UNION

UPIU
Department of Health and Safety
P.O. Box 1475
Nashville, Tennessee 37202

8. OIL, CHEMICAL, AND ATOMIC WORKERS INTERNATIONAL UNION

OCAW
Health and Safety Department
P.O. Box 2812
Denver, Colorado 80201

9. INTERNATIONAL CHEMICAL WORKERS UNION

ICWU
Health and Safety Department
1655 West Market Street
Akron, Ohio 44313

10. CENTER FOR OCCUPATIONAL HAZARDS (Art Hazards Project)

Center for Occupational Hazards
5 Beekman Street
New York, New York 10038

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