

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



HR Multiple Black DC V3

Material number Multiple Black DC V3

Revision date: 3/16/2021

Version: 1.0

Language: en-US

Date of print: 4/12/2021

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1. Product and company identification

Product identifier

Trade name: Multiple Black DC V3

Relevant identified uses of the substance or mixture and uses advised against

General use: Ink for industrial coding systems.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: PANNIER CORPORATION
Street/POB-No.: 207 Sandusky Street
Postal Code, city: Pittsburgh, PA 15212-5823 USA
WWW: www.pannier.com
E-mail: sales@pannier.com
Telephone: (412) 323-4900
Telefax:

Emergency phone number:

**Infotrac 24-Hour Emergency Response
Number 1-800-535-5053**

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 !F and 101.3 kPa: liquid
Color: Black
Odor: Like alcohol
Classification: Flammable Liquid - Category 2; Eye Damage - Category 1; Aquatic toxicity - chronic - Category 3;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Highly flammable liquid and vapor.
Causes serious eye damage.
Harmful to aquatic life with long lasting effects.

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Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction. Store in a well-ventilated place. Keep cool.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.
Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization:

Dye-Solvent mixture.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 64-17-5	Ethanol	< 80 %	Flammable Liquid - Category 2.
CAS 71-23-8	Propan-1-ol	< 20 %	Flammable Liquid - Category 2. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 117527-94-3	Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complex	< 10 %	Aquatic toxicity - chronic - Category 2.
CAS 123-42-2	4-Hydroxy-4-methylpentan-2-one	< 2 %	Eye Irritation - Category 2A.

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4. First aid measures

- General information: If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
Take off immediately all contaminated clothing and wash it before reuse.
- In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
- Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.
Subsequently seek the immediate attention of an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

Most important symptoms/effects, acute and delayed

Causes serious eye damage.

Information to physician

Treat symptomatically.

5. Firefighting measures

Flash point/flash point range:

55.4 - 73.4 !F

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, dry chemical powder, alcohol resistant foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Air combined with vapors may form potentially explosive mixtures that are heavier than air. Vapor may travel great distances and cause fire and backflashes. In case of fire may be liberated: nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

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6. Accidental release measures

- Personal precautions:** Do not breathe mist/vapors/spray. Avoid contact with the substance. Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants.
- Environmental precautions:** Do not allow to enter into ground-water, surface water or drains. Danger of explosion! In case of release, notify competent authorities.
- Methods for clean-up:** Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Beware of reignition. Thoroughly clean surrounding area. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).
- Additional information:** Use explosion-proof equipment and non-sparking tools/utensils. Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

- Advices on safe handling:** Provide adequate ventilation, and local exhaust as needed. Do not breathe vapors. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

- Keep away from sources of ignition - No smoking.
- Take precautionary measures against static discharge.
- Use only explosion-protected equipment/instruments. Do not weld.
- In partially filled containers explosive mixtures may form.

Storage

Requirements for storerooms and containers:

- Keep container tightly closed and in a well-ventilated place.
- Keep container dry. Keep only in the original container.
- Protect from heat and direct sunlight.
- Store containers in upright position.
- Protect from frost.

Hints on joint storage:

- Keep away from food, drink and animal feeding stuffs.
- Do not store together with: acids, oxidizing agents. Do not store together with highly flammable materials.

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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64-17-5	Ethanol	USA: ACGIH: STEL	1000 ppm
		USA: NIOSH: TWA	1900 mg/m"; 1000 ppm
		USA: OSHA: TWA	1900 mg/m"; 1000 ppm
71-23-8	Propan-1-ol	USA: ACGIH: TWA	246 mg/m"; 100 ppm
		USA: NIOSH: STEL	625 mg/m"; 250 ppm (may be absorbed through the skin)
		USA: NIOSH: TWA	500 mg/m"; 200 ppm (may be absorbed through the skin)
123-42-2	4-Hydroxy-4-methylpentan-2-one	USA: OSHA: TWA	500 mg/m"; 200 ppm
		USA: ACGIH: TWA	238 mg/m"; 50 ppm
		USA: NIOSH: TWA	240 mg/m"; 50 ppm
		USA: OSHA: TWA	240 mg/m"; 50 ppm

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at workplace.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 !F and 101.3 kPa: liquid Color: Black
Odor:	Like alcohol
Odor threshold:	No data available
pH:	4 - 7
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	167 !F
Flash point/flash point range:	55.4 - 73.4 !F
Evaporation rate:	No data available
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 77 !F: 0.845 g/mL
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	at 77 !F: 2.5 mPa*s
Explosive properties:	Vapors may form explosive mixtures with air.
Oxidizing characteristics:	Not oxidizing

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Heating will lead to pressure increase: Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight. Protect from frost.
Incompatible materials:	Acids, strong oxidizing agents
Hazardous decomposition products:	No decomposition when used properly.
Thermal decomposition:	No data available

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11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 5000 mg/kg
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 5000 mg/kg
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 20 mg/L.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Specific symptoms in animal studies:
Propan-1-ol, 4-Hydroxy-4-methylpentan-2-one (Rabbit): Product can cause slight irritation.
Serious eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.
Sensitization to the respiratory tract: Lack of data.
Skin sensitization: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Information about ethanol:
LD50, oral, Rat: 7,060 mg/kg
LDL0, dermal, Rabbit: 20,000 mg/kg
LC50, inhalative, Rat: 63,000 ppm/4h
Information about Propan-1-ol:
LD50, oral, Rat: 3,830 mg/kg
LD50, dermal, Rabbit: > 10,000 mg/kg
LC50, inhalative, Rat: > 9.8 mg/L/4h
Information about 4-Hydroxy-4-methylpentan-2-one:
LD50, oral, Rat: 4,000 mg/kg
LD50, dermal, Rabbit: 13,630 mg/kg

Symptoms

Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.

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12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about ethanol:
Fish toxicity: LC50 (Pimephales promelas (fathead minnow)): > 100 mg/L/96h
Daphnia toxicity: LC50 (Ceriodaphnia spec): 5,012 mg/L/48h
Information about Propan-1-ol:
Fish toxicity: LC50 (Pimephales promelas (fathead minnow)): > 804 mg/L/96h
Information about Amines, C12-14-tert-alkyl, compounds with
1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol
1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complex:
Fish toxicity: LC50: 2.0 mg/L

Further details: Information about dye: not readily biodegradable (according to OECD criteria)

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):
approx. 98 % by weight

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.
Handle empty containers with care. Incineration may cause explosion.
Non-contaminated packages may be recycled.

14. Transport information

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1263, PAINT or PAINT RELATED MATERIAL

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Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3



Packing group

ADR/RID, IMDG, IATA-DGR:

II

Environmental hazards

Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Identification number: UN1263
Proper shipping name: UN 1263, PAINT or PAINT RELATED MATERIAL
Hazard class or Division: 3
Packing Group: II
Labels: 3
Special provisions: 149, 367, B52, B131, IB2, T4, TP1, TP8, TP28
Packaging # Exceptions: 150
Packaging # Non-bulk: 173
Packaging # Bulk: 242
Quantity limitations # Passenger aircraft / rail: 5 L
Quantity limitations # Cargo only: 60 L
Vessel stowage # Location: B



Sea transport (IMDG)

UN number: UN 1263
Proper shipping name: UN 1263, PAINT or PAINT RELATED MATERIAL
Class or division, Subsidiary risk: Class 3, Subrisk -
Packing Group: II
EmS: F-E, S-E
Special provisions: 163, 367
Limited quantities: 5 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: PP1
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP8, TP28
Stowage and handling: Category B.
Properties and observations: Miscibility with water depends upon the composition.
Marine pollutant: no
Segregation group: none

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Air transport (IATA)

UN/ID number: UN 1263
Proper shipping name: UN 1263, PAINT or PAINT RELATED MATERIAL
Class or division, Subsidiary risk: Class 3
Packing Group: II
Hazard label: Flamm. liquid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions: A3 A72 A192
Emergency Response Guide-Code (ERG): 3L

15. Regulatory information

National regulations - U.S. Federal Regulations

Ethanol:

TSCA Inventory: listed
TSCA HPVC: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0262

Propan-1-ol:

TSCA Inventory: listed
TSCA HPVC: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0533

Amines, C12-14-tert-alkyl, compounds with
1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-
naphthalenol 1-[[2-hydroxy-4(or
5)-nitrophenyl]azo]-2-naphthalenol chromium complex:

TSCA Inventory: listed; UVCB; EPA flags PMN
TSCA HPVC: not listed

4-Hydroxy-4-methylpentan-2-one:

TSCA Inventory: listed; EPA flags T
TSCA HPVC: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0178

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National regulations - U.S. State Regulations

Ethanol: California Proposition 65 code: -
Idaho Air Pollutant List:
Title 585: AAC: 94 - EL: 125 - OEL: 1880 - Title 586: -
Massachusetts Haz. Substance codes: 2,4,5,6 *T1*
Minnesota Haz. Substance:
Codes: AO - Ratings: 7.74
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 1000 ppm - 1900 mg

Propan-1-ol: Idaho Air Pollutant List:
Title 585: AAC: 25 - EL: 33.3 - OEL: 500 - Title 586: -
Massachusetts Haz. Substance codes: 2,4,6
Minnesota Haz. Substance:
Codes: AO - Ratings: -
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 200 ppm - 500 mg - STEL: 250 ppm - 625 mg
Skin: Protective measures should be taken to prevent or reduce skin absorption.

National regulations - Great Britain

Hazchem-Code: \$3YE

16. Other information

Text for labeling: Contains < 80 % Ethanol, < 20 % Propan-1-ol, < 10 % Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complex, < 2 % 4-Hydroxy-4-methylpentan-2-one. Safety data sheet available on request.

Hazard rating systems:



Contains: Propan-1-ol
NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 3 (Serious)
Reactivity: 1 (Slight)

HMIS Version III Rating:
Health: 2 (Moderate)
Flammability: 3 (Serious)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	1
	X

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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EU: European Union
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bio accumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorization and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
UN: United Nations
vPvB: Very persistent and very bio accumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 15: restrictions on use

Date of first version: 5/6/2019

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.