

HR Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

SECTION 1: DESIGNATION OF PRODUCT AND COMPANY

1.1 Identification of the substance or preparation

HR, Multiple black

1.2 Use of the substance/preparation

Ink for industrial ink jet printers.

1.3 Company/undertaking identification

Pannier Corporation 207 Sandusky Street Pittsburgh, PA 15212 USA Phone: 412-323-4900

http://www.pannier.com e-mail: sales@pannier.com

1.4 Emergency telephone:

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

SECTION 2: HAZARD IDENTIFICATION

Physical hazards Flammable liquids Category 2
Health hazards Serious eye damage/eye irritation Category 1
Environmental hazards Hazardous to the aquatic environment, long-term hazard

OSHA defined hazards not classified.

Label elements



Vers.1.0 Page 1/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

Signal word

Danger

Hazard statement

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

Precautionary statement

Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/Bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment. P242 - Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.

Response

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P370 + P378 In case of fire: Use sand, carbon dioxide (C02) or dry chemical to extinguish.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Prolonged or repeated skin contact may cause drying, cracking, or irritation. May produce an allergic reaction.

Supplemental information

Contains tinting agent. May produce an allergic reaction.

Vers.1.0 Page 2/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures Chemical name	Common name and synonyms	CAS number	%
ethanol		64-17-5	<80
Cyclohexanone		108-94-1	<10
Acetone		67-64-1	<7.5
Black colorant		Proprietary	<7.5
Amines, C12-18-alkyl, bis[2,4-dihydro-4-[(2-hydroxy-5-nitr ophenyl)azo]-5-methyl-2-phenyl-3H pyrazol-3-onato(2-)]cobaltate Sodium bis[2,4-dihydro-4-[(2-hydroxy-5-nitr		85203-44-7 71839-88-8	<1
bis[2,4-dihydro-4-[(2-hydroxy-5-nitr ophenyl)azo]-5-methyl-2-phenyl-3H -pyrazol-3-onato(2-)]cobaltate			

SECTION 4: FIRST AID MEASURES

Inhalation

Move person to fresh air immediately.

If symptoms persist, get immediate medical attention.

Skin contact

In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.

Get medical attention, if needed.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Get medical attention immediately.

Ingestion

Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Vers.1.0 Page 3/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

Most important symptoms/effects, acute and delayed

Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable extinguishing media: sand, carbon dioxide (CO2) or dry chemical.

Unsuitable extinguishing media

Not available

Specific hazards arising from the chemical

Not applicable

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self-contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.

Fire-fighting equipment/instructions

Move containers from fire area if you can do it without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

Methods and materials for containment and cleaning up

Not available.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Wear personal protective equipment.

Vers.1.0 Page 4/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3 50 ppm
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm
	TWA	20 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3 25 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm

Biological limit values

ACGIH biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with Hydrolysis	Urine	*

Vers.1.0 Page 5/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015	Replaced version: 08.19.2019	Date of impression: 03.12.2015	

8 mg/l	Cyclohexanol, with	Urine	*
	hydrolysis		

^{* -} For sampling details, please see the source document.

Exposure guidelines

US. ACGIH Threshold Limit Values

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

CYCLOHEXANONE (CAS 108-94-1) Can be absorbed through the skin.

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering controls

Not available

Individual protection measures, such as personal protective equipment Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards

Not available.

General hygiene considerations

Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.

Vers.1.0 Page 6/15

HR, Multiple black



according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state not available
Color black
Odor solvent
Odor threshold not available
pH not available
Melting point/freezing point not available

Initial boiling point and

Boiling range not available

Flash point 41.0°F (5.0°C) Setaflash Closed Cup

Evaporation rate not available Flammability (solid, gas) not available

Upper/lower flammability or explosive limits

Flammability limit – lower (%) not available
Flammability limit - upper (%) not available
Explosive limit - lower (%) not available
Explosive limit - upper (%) not available
Vapor pressure not available

Solubility(ies)

Solubility (water) not available

Partition coefficient

(n-octanol/water)not availableAuto-ignition temperaturenot availableDecomposition temperaturenot availableViscositynot available

Other information for other VOC regulatory data/information see

Section 15.

VOC (Weight %) 789 g/l

SECTION 10: STABILITY AND REACTIVITY

Reactivity not available

Chemical stability stable at normal conditions

Possibility of hazardous reactions none known

Vers.1.0 Page 7/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

Conditions to avoid

Incompatible materials

Hazardous decomposition

products

heat, flames and sparks.

not available

not available

SECTION 11: TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics Not available

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye damage

Respiratory or skin sensitization

Respiratory sensitization

Based on available data, the classification criteria are not met

Skin sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1): 3 not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Vers.1.0 Page 8/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

Specific target organ toxicity

Single exposure: based on available data, the classification criteria are not met.

Specific target organ toxicity

Repeated exposure: based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met

Further information

Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Components	Species	Test results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	20000 mg/kg
		20 ml/kg
Inhalation		
LC50	Rat	76 mg/l, 4 Hours
		50.1 mg/l, 8 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Other		
LD50	Mouse	1297 mg/kg
	Rat	5500 mg/kg
Ethanol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
Oral		
LD50	Dog	5.5 g/kg
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	6.2 g/kg

Vers.1.0 Page 9/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

Other

LD50 Mouse 933 mg/kg
Rat 1440 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC50/96h/rainbow trout = <100 mg/l and >10 mg/l.

Ecotoxicity

Comp	onents		Species	Test results		
Acetone (CAS 67-64-1)						
Aquatic						
	Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours		
	Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours		
Cycloh	exanone (CAS Aquatic	108-94-1)				
	Fish	LC50	Fathead minnow (Pimephales promelas)	481 - 578 mg/l, 96 hours		
Ethanol (CAS 64-17-5) Aquatic						
	Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours		
	Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours		
Persistence and degradability Bioaccumulative potential			not available not available			
Partition coefficient n-octanol / water (log Kow)						
Aceton	· ·	-0.2 0.81	+			
Ethano	lexanone	-0.3	1			
	y in soil		ı available			
	adverse effects		available			

Vers.1.0 Page 10/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions

Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

SECTION 14: TRANSPORT INFORMATION

DOT

UN number UN 1263

UN proper shipping name Paint, flammable (Ethanol, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packaging group II

Special precautions for user not available

DOT supplemental information DOT classification only applies to shipments within the

US and Puerto Rico.

IATA

UN number UN 1263

UN proper shipping name Paint, flammable (Etanol, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards no

Special precautions for user not available

IMDG

UN number UN 1263

UN proper shipping name Paint, flammable (Ethanol, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II

Environmental hazards

Marine pollutant no

EmS not available Special precautions for user not available

Vers.1.0 Page 11/15

HR, Multiple black



according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

ADR

Proper shipping name Paint, flammable (Ethanol, Acetone)

Ш

Hazard class

UN number UN 1263

Packing group

DOT



IATA; IMDG



ADR



SECTION 15: REGULATORY INFORMATION

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) Listed Cyclohexanone (CAS 108-94-1) Listed

Vers.1.0 Page 12/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate hazard yes
Delayed hazard no
Fire hazard yes
Pressure hazard no
Reactivity hazard no

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 no

Hazardous chemical

Other federal regulations

Safe Drinking Water Act (SDWA) not regulated

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Ethanol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Ethanol (CAS 64-17-5)

Vers.1.0 Page 13/15

HR, Multiple black



according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Ethanol (CAS 64-17-5) **US. Rhode Island RTK** Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

US. California Proposition 65

Not listed

Other information

VOC content (less water, less exempt compounds) = 789 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)

Regulatory information

All chemical substances in this product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

SECTION 16: OTHER INFORMATION

Disclaimer

This Safety Data Sheet document is provided without charge to customers. Data is the most current known at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CFR Code of Federal Regulations

COC Cleveland Open Cup

DOT Department of Transportation

EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer
NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

Vers.1.0 Page 14/15



HR, Multiple black

according to EC Nr. 1907/2006

Date: 12/2015 Replaced version: 08.19.2019 Date of impression: 03.12.2015

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

TCLP Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

Vers.1.0 Page 15/15