

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/17/2016

Reviewed on 08/17/2016

*** 1 Identification**

- **Product Identifier**
- **Trade name:** Ready Flow Water Kolor Ink
- **Product Number:** 1241-WK, 1242-WK, 1243-WK, 1244-WK, 1246-WK
- **Relevant identified uses of the substance or mixture and uses advised against:** Printing Ink
- **Product Description** Printing Ink
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Ready Flow, Inc.
1500 West Easy Street
Rogers, AK 72756
479-636-4835
- **Emergency telephone number:** 479-636-4835

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements:**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Warning

- **Hazard-determining components of labeling:**

Carbon black

- **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

- **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

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P264	Wash thoroughly after handling.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	IF skin irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Classification system:**• **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 0
Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**

Health = *1
Fire = 0
Reactivity = 0

• **Hazard(s) not otherwise classified (HNOC):** None known* **3 Composition/Information on Ingredients**• **Non-hazardous components:**

7732-18-5 Water, distilled water, deionized water	60-90%
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• **Chemical characterization: Mixtures**• **Description:** Mixture of substances listed below with non-hazardous additions.• **Dangerous Components:**

CAS: 1333-86-4	Carbon black	5-15%
RTECS: FF 5150100	☠ Carc. 2, H351; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 57-55-6	Propylene Glycol	5-10%
RTECS: TY 2000000		

• **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

* **4 First-Aid Measures**• **Description of first aid measures:**• **After inhalation:** Supply fresh air.• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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If skin irritation occurs, consult a doctor.

• **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

• **After swallowing:** If swallowed and symptoms occur, consult a doctor.

• **Information for doctor:**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-Fighting Measures

• **Extinguishing media:**

• **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **Special hazards arising from the substance or mixture:** No further relevant information available.

• **Advice for firefighters:**

• **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

• **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

• **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

• **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

• **Handling**

• **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

• **Information about protection against explosions and fires:** Keep protective respiratory device available.

• **Conditions for safe storage, including any incompatibilities:**

• **Storage**

• **Requirements to be met by storerooms and receptacles:** No special requirements.

• **Information about storage in one common storage facility:** Not required.

• **Further information about storage conditions:** Keep receptacle tightly sealed.

• **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

• **Additional information about design of technical systems:** No further data; see section 7.

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Trade name: Ready Flow Water Kolor Ink• **Control parameters:**• **Components with occupational exposure limits:****1333-86-4 Carbon black**PEL Long-term value: 3.5 mg/m³REL Long-term value: 3.5* mg/m³
0.1 in presence of PAHs; See Pocket Guide Apps.A+CTLV Long-term value: 3 mg/m³
*inhalable fraction**57-55-6 Propylene Glycol**WEEL Long-term value: 10 mg/m³• **Additional information:** The lists that were valid during the creation of this SDS were used as basis.• **Exposure controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

• **Personal protective equipment:**• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

• **Breathing equipment:** Not required.• **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

• **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• **Eye protection:**

Tightly sealed goggles

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9 Physical and Chemical Properties· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Liquid
 Color: Various colors
 Odor: Not Distinctive
 Odor threshold: Not determined.

· **pH-value:** 8-9· **Change in condition**

Melting point/Melting range: Not determined.
 Boiling point/Boiling range: 100 °C (212 °F)

· **Flash point:** None· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** Not determined.· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not self-igniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

Lower: Not determined.
 Upper: Not determined.

· **Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)· **Density @ 20 °C (68 °F):** 1.0 g/cm³ (8.345 lbs/gal)· **Relative density:** Not determined.· **Vapor density:** Not determined.· **Evaporation rate:** Not determined.· **Solubility in / Miscibility with:**

Water: Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

Dynamic: Not determined.
 Kinematic: Not determined.

· **Solvent content:**

Organic solvents: 0.5 %
 Water: 67.0 %
 VOC content: 0.5 %

Solids content: 15.0 %

· **Other information:** No further relevant information available.**10 Stability and Reactivity**· **Reactivity:** No further relevant information available.· **Chemical stability:** Stable under normal conditions.

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- **Thermal decomposition / conditions to be avoided:**
Thermal decomposition will produce toxic oxides of carbon.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*** 11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

1333-86-4 Carbon black

Oral	LD50	10000 mg/kg (rat)
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57-55-6 Propylene Glycol

Oral	LD50	20000 mg/kg (rat)
Dermal	LD50	20800 mg/kg (rabbit)
Inhalative	LC50/96 hours	52930 mg/l (Pimephales)
	Intravenous	6630 mg/kg (mouse)
		6423 mg/kg (rat)
		6500 mg/kg (rabbit)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
Carcinogenic

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

Substance listed by IARC. In 1995 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of carbon black." Based on rat inhalation studies, IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black" resulting in their classifying carbon black as "possibly carcinogenic to humans (Group 2B).

1333-86-4 Carbon black

2B

- **NTP (National Toxicology Program):**
None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration):**
None of the ingredients are listed.

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Trade name: Ready Flow Water Kolor Ink*** 12 Ecological Information**· **Toxicity:**· **Aquatic toxicity:****57-55-6 Propylene Glycol**

EC50 >10000 mg/l (daphnia)

· **Persistence and degradability:** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential:** No further relevant information available.· **Mobility in soil:** No further relevant information available.· **Additional ecological information:**· **General notes:** Do not allow product to reach ground water, water course or sewage system.· **Results of PBT and vPvB assessment:**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects:** No further relevant information available.**13 Disposal Considerations**· **Waste treatment methods:**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packagings**· **Recommendation:** Disposal must be made according to official regulations.**14 Transport Information**· **UN-Number:**· **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

· **UN proper shipping name:**· **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

· **Transport hazard class(es):**· **DOT, ADR, ADN, IMDG, IATA**· **Class:**

Non-Regulated Material

· **Packing group:**· **DOT, ADR, IMDG, IATA**

Non-Regulated Material

· **Environmental hazards:**

Not applicable.

· **Special precautions for user:**

Not applicable.

· **Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code:**

Not applicable.

· **UN "Model Regulation":**

Non-Regulated Material

15 Regulatory Information· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**· **SARA (Superfund Amendments and Reauthorization):**· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

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Trade name: Ready Flow Water Kolor Ink**Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

California Proposition 65:**Chemicals known to cause cancer:**

1333-86-4 Carbon black

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

1333-86-4 Carbon black

57-55-6 Propylene Glycol

New Jersey Special Hazardous Substance List:

1333-86-4 Carbon black

CA

Pennsylvania Right-to-Know List:

57-55-6 Propylene Glycol

104-76-7 2-ethylhexan-1-ol

Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

Carcinogenic categories:**EPA (Environmental Protection Agency):**

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

1333-86-4 Carbon black

A4

NIOSH-Ca (National Institute for Occupational Safety and Health):

1333-86-4 Carbon black

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

GHS07 GHS08

Signal word: Warning**Hazard-determining components of labeling:**

Carbon black

Hazard statements:

H315 Causes skin irritation.

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Trade name: Ready Flow Water Kolor Ink

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision: 08/17/2016 / 3**Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

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Trade name: Ready Flow Water Kolor Ink

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 2: Carcinogenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

• *** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106