Ink Wash

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/26/2016 Supersedes: Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Vortex Ink Wash

Product form : Mixture

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

Use of the substance/mixture : To remove ink and ink stains.

1.3. Details of the supplier of the safety data sheet

Graphic Solutions Group - Corporate Headquarters
4601 Spring Valley Rd.
Dallas, TX 75244
Phone: 1-800-366-1776
Web: www.gogsg.com
Email: human.resources@gogsg.com

1.4. Emergency telephone number

(800)-424-9300 CHEMTREC USA & CANADA
+1 (703) 741-5970 CHEMTREC INTERNATIONAL

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Eye Irrit. 2A H319
Asp. Tox. 1 H304

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS07 GHS08

Signal word (GHS-US): **Danger**

Hazard statements (GHS-US): H304 - May be fatal if swallowed and enters airways; H319 - May cause serious eye irritation

Precautionary statements (GHS-US): P264 - Wash hands, forearms and face thoroughly after handling; P280 - Wear eye protection, face protection, protective clothing, protective gloves; P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER; P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; P331 - Do NOT induce vomiting; P337+P313 - If eye irritation persists: Get medical advice/attention; P501 - Dispose of contents/container to a facility that complies with all local, state, regional, federal, national, and international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Diethylene glycol monobutyl ether	(CAS No) 112-34-5	30 - 60
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	30 - 60
Alcohols, ethoxylated	(CAS No) 68551-12-2 or (CAS No) 68439-46-3	3 - 7

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May be fatal if swallowed and enters airways. May cause serious eye irritation.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause serious eye irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray. Sand.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Heating may cause a fire.

Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to untreated waste streams and public waters. Notify authorities if liquid enters untreated waste streams and or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Eliminate ignition sources. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours, mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep the container tightly closed. Avoid temperature extremes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylene glycol monobutyl ether (112-34-5)	
ACGIH TWA (ppm)	10 (inhalable fraction and vapor)
Remark (OSHA)	OELs not established
Petroleum distillates, hydrotreated light (64742-47-8)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Ethylene Oxide (75-21-8)	
Remark (ACGIH)	TWA, 1 ppm
Remark (OSHA)	STEL, 5 ppm TWA, 1 ppm

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment :

Eye protection : Wear safety glasses with side shields (or goggles).

Skin and body protection : Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed – apron, suit, boots.

Respiratory protection : NIOSH-approved (or equivalent) respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

Other Protective Equipment : Facilities storing or utilizing this material should be equipped with an eyewash facility.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Clear. amber.

Odor : Mild solvent.

Odor Threshold : No data available

pH : Neutral

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : > 230 °C (446 °F)

Flash point : > 93 °C (200 °F) (Setaflash)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 0.02 mm Hg @ 20 °C (68 °F)

Relative vapour density at 20 °C : Heavier than air

Relative density : 1.05 @ 20 °C (68 °F)

Solubility : No data available

Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 820 g/l (6.8 lbs/gallon) tested by EPA Method 24

SECTION 10: Stability and reactivity

10.1. Reactivity : No dangerous reactions known under normal conditions of use

10.2. Chemical stability : Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions : None known.

10.4. Conditions to avoid : None known.

10.5. Incompatible materials : Strong oxidizers. Acids. Alkalis.

10.6. Hazardous decomposition products : Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Vortex Ink Wash	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 4000 mg/kg

Diethylene glycol monobutyl ether (112-34-5)	
LD50 oral rat	3384 mg/kg
LD50 dermal rabbit	2700 mg/kg
ATE CLP (oral)	3384.000 mg/kg bodyweight
ATE CLP (dermal)	2700.000 mg/kg bodyweight

Ethylene Oxide (75-21-8)	
LD50 oral rat	> 72 mg/kg
LC50 inhalation rat (mg/l)	> 1.44 mg/l/4h

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Skin corrosion/irritation	: Not classified pH: Neutral
Serious eye damage/irritation	: May cause serious eye irritation. pH: Neutral
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause serious eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ethylene glycol (107-21-1)	
LC50 fishes	16000 mg/l 96 Hr; Poecilia reticulata; [static]
EC50 Daphnia	46300 mg/l 48 Hr; Daphnia magna

Alcohols, ethoxylated (68551-12-2 or 68439-46-3)	
LC50 fishes	73 – 96 mg/L, 96 hr
EC50 Daphnia	1.8 – 12.1 mg/L, 48 hr

Ethylene Oxide (75-21-8)	
LC50 fishes	73 – 96 mg/L, 96 hr

12.2. Persistence and degradability

Vortex Ink Wash	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

Vortex Ink Wash	
Bioaccumulative potential	No information available.

12.4. Mobility in soil

Vortex Ink Wash	
Ecology - soil	No information available.

12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT : Not hazardous for transport

Other information : No supplementary information available.

Transport by Sea : No additional information available

Air transport : No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Vortex Ink Wash	
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

Diethylene glycol monobutyl ether (112-34-5)	
Section 302 (EHS) TPQ	
Section 304 EHS RQ	
CERCLA RQ	
Section 313	Listed on US SARA Section 313

2-Butoxyethanol (111-76-2)	
Section 302 (EHS) TPQ	
Section 304 EHS RQ	
CERCLA RQ	
Section 313	Listed on US SARA Section 313

1-Butanol (71-36-3)	
Section 302 (EHS) TPQ	
Section 304 EHS RQ	
CERCLA RQ	5000 lb
Section 313	Listed on US SARA Section 313

Ethylene glycol (107-21-1)	
Section 302 (EHS) TPQ	
Section 304 EHS RQ	
CERCLA RQ	5000 lb
Section 313	Listed on US SARA Section 313

15.2. International regulations
No additional information available.

15.3. US State regulations

California Proposition 65

This product may contain components in trace levels that are on the California Proposition 65 list (Ethylene Oxide)

2-Butoxyethanol (111-76-2)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
1-Butanol (71-36-3)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Ethylene glycol (107-21-1)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Indication of changes : Revision 1.0

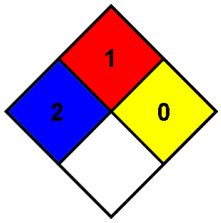
Revision date : 09/26/2016

NFPA health hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard: 1 - Must be preheated before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard:



HMIS III Health: 2 - Temporary or minor injury may occur.

HMIS III Flammability: 1 - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C).

HMIS III Physical: 0 - Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.

HMIS III Personal Protection: H - Gloves. Protective goggles. Wear chemically impervious apron over lab coat and full coverage clothing. Insufficient ventilation: wear respiratory protection.

Health	2
Flammability	1
Reactivity	0
Personal Protection	H

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product