



Premium Ink Wash & Stain Remover

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 Premium Ink Wash & Stain Remover :

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

Comb. Liq. 4 H227

Eye Irrit. 2A H319

Asp. Tox. 1 H304

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US):



GHS08

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

Hazard statements (GHS-US): H227 - Combustible liquid; H304 - May be fatal if swallowed and enters airways; H319 - May cause serious eye irritation

Precautionary statements (GHS-US): P210 - Keep away from heat, open flames, sparks. - No smoking; 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; P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish; P403+P235 - Store in a well-ventilated place. Keep cool; 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

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3.2. Mixture

Name	Product identifier	%
Aliphatic dibasic esters	Mixture (CAS No) 1119-40-0 (CAS No) 627-93-0 (CAS No) 106-65-0	30 - 60
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	(CAS No) 88917-22-0	15 - 40
Alcohols, ethoxylated	(CAS No) 78330-20-8 or (CAS No) 66455-14-9	3 - 10
Alcohols, ethoxylated	(CAS No) 68551-12-2 or (CAS No) 68439-46-3	3 - 10
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	5 - 10

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 difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- 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 be harmful if inhaled.
- 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 : Combustible liquid.
- 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 : 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.

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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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Avoid breathing vapours. 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

Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate (88917-22-0)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Alcohols, ethoxylated (78330-20-8 or 66455-14-9)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Alcohols, ethoxylated (68551-12-2 or 68439-46-3)	
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
Petroleum distillates, hydrotreated light (64742-47-8)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

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.

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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	: 5 - 6 (50% solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 196 °C (385 °F)
Flash point	: 91 °C (196 °F) (Setaflash)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.08 mm Hg @ 20 °C (68 °F)
Relative vapour density at 20 °C	: Heavier than air
Relative density	: 1.01 @ 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	: None

9.2. Other information

VOC content	: 910 g/l (7.6 lbs/gallon) tested by EPA Method 24
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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. Alkalies.
10.6. Hazardous decomposition products	: May decompose at high temperature. Thermal decomposition generates : Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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Haze & Stain Remover	
LD50 oral rat	> 3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 11 mg/l/4h
Alcohols, ethoxylated (78330-20-8 or 66455-14-9)	
LD50 oral rat	> 4400 mg/kg
NOAEL dermal rat	> 80 mg/kg, 90 days
Ethylene Oxide (75-21-8)	
LD50 oral rat	> 72 mg/kg
LC50 inhalation rat (mg/l)	> 1.44 mg/l/4h

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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: 5 - 6 (50% solution)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5 - 6 (50% solution)
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	: Harmful if inhaled.
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

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
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12.2. Persistence and degradability

Haze & Stain Remover

Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

Haze & Stain Remover

Bioaccumulative potential	No information available.
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12.4. Mobility in soil

Haze & Stain Remover

Ecology - soil	No information available.
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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.

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SECTION 14: Transport information

In accordance with Department of Transportation (DOT)

Not DOT regulated for domestic ground transportation unless greater than 119 gallons (450 liters).

Transport document description	: NA1993 Combustible liquid, n.o.s. (Contains: Dipropylene glycol methyl ether acetate), 3, III
DOT NA no.	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s. Contains: Dipropylene glycol methyl ether acetate
DOT Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Quantity Limitations Passenger aircraft/rail	: 60 L (49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only	: 220 L (49 CFR 175.75)
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Haze & Stain Remover	
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

15.2. International regulations

No additional information available.

15.3. US State regulations

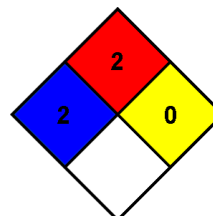
California Proposition 65

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

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:	2 - Must be moderately heated or exposed to relatively high temperature 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:	2 - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 °F (38 °C) but below 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. Wear chemical goggles and face shield in combination. Protective clothing. Insufficient ventilation: wear respiratory protection.

Health	2
Flammability	2
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.